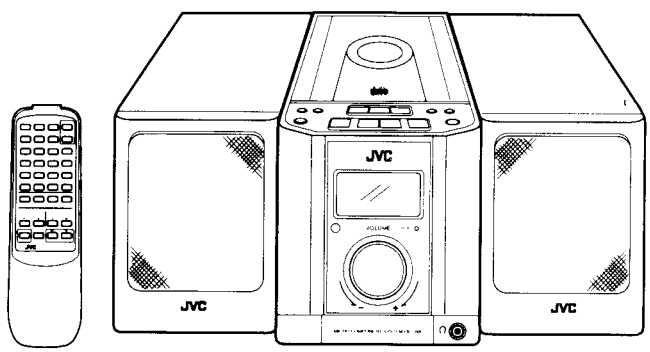
JVC

SERVICE MANUAL

ULTRA MICRO COMPONENT SYSTEM

UX-1000GR B/E/EN/G



COMPACT disc DIGITAL AUDIO

Area Suffix

B ..... U.K.
E ..... Continental Europe
EN ..... North Europe
G ..... Germany

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No. 1981
July 1996

1. Safety Precautions

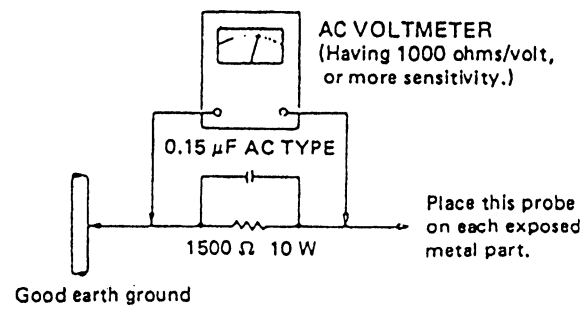
1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacture's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety – related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of service manual. Electrical components having such features are identified by (⚠)on the schematic diagram and parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps , tubings, barriers and the like to be separated from live parts, high temperature parts, mpving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
5. Leakage current check (Electrical shock hazard testing)

   After re – assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

   • Plug the AC line cord directly into the AC outlet. using a"Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particulary any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exposeed 0.5mA AC(r.m.s.)

   • Alternate check method

   Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a 0.15 μ F AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintaintaind.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

⚠ **CAUTION**

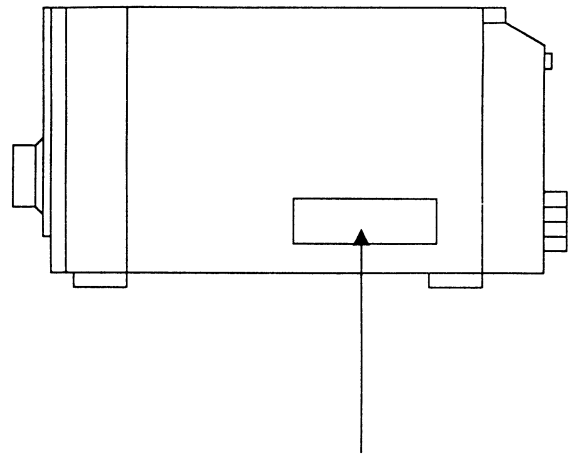
Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.

2. Safety Precaution about UX – 1000GR

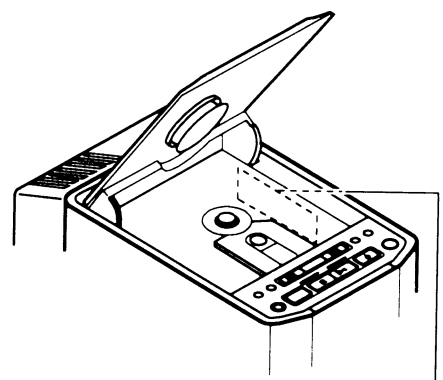
IMPORTANT FOR LASER PRODUCTS PRECAUTIONS

1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. **CAUTION:** The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD holder is open. It is dangerous to defeat the safety switches.
5. **CAUTION:** Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.
6. **CAUTION:** The laser is able to function, if safety switches out of function. The laser light is invisible, avoid exposure, do not disassemble the laser unit, but replace the complete unit.

IDENTIFICATION LABEL AND CERTIFICATION LABEL



CLASS 1
LASER PRODUCT



DANGER: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	ADVARSEL: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgåudsættelse for stråling. (d)	VARNING: Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. (s)	VARO: Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)

IMPORTANT (In the U. K.)

Mains Supply (AC 230 V~, 50 Hz only)

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

BE SURE to replace the fuse only with an identical approved type, as originally fitted, and to replace the fuse cover.

If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

IMPORTANT

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:

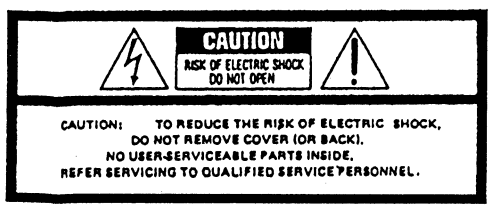
Blue to N (Neutral) or Black
Brown to L (Live) or Red

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT – CONSULT A COMPETENT ELECTRICIAN.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

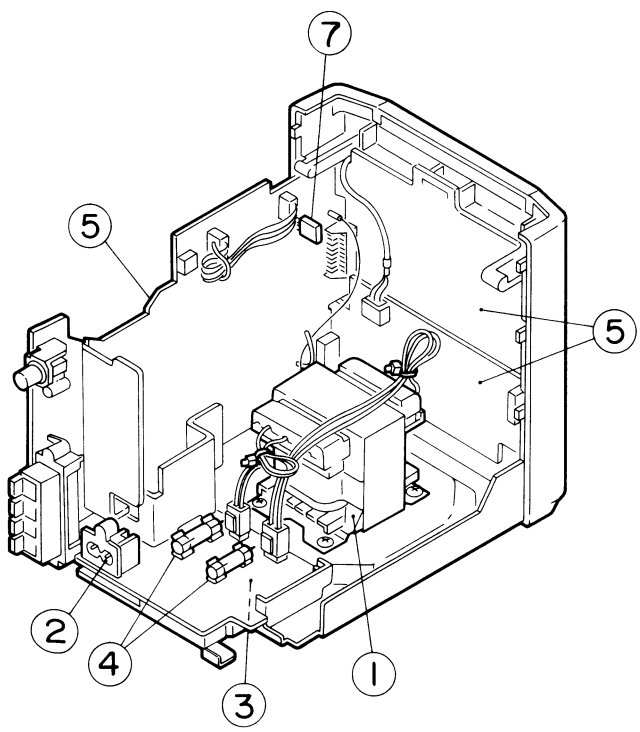
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

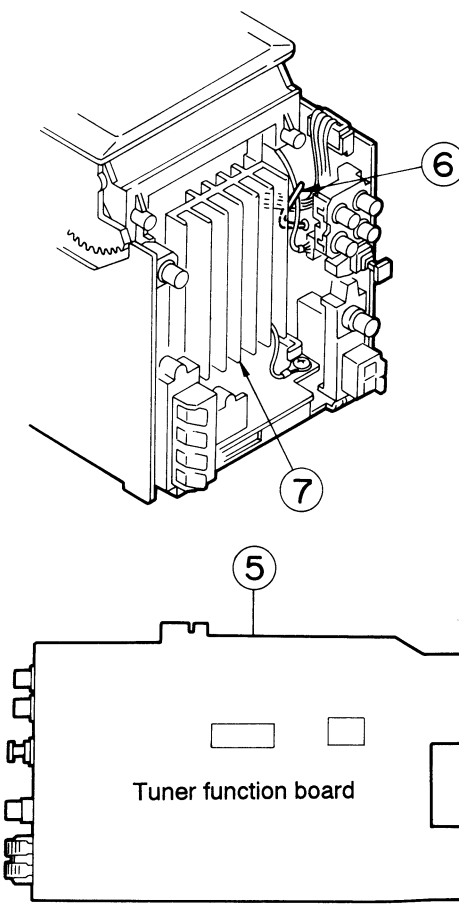
■ Inportant management points regarding safety(Item demanding special safety precautions)

1. Power transformer marking : VTP66J2 – 12K
   The torque of the screw driver for the power transformor must be controlled.
2. Concerning the AC socket, the next marking must be confirmed and to avoid print circuit board pattern damage. The AC socket must not float from print circuit board.
   •Marking ····· HJC027
3. Concerning the primary terminal and the adjacent secondary terminal on the print circuit board to provide proper creeping and spatial distance, solder must not protrude from soldering round.
4. Before installation confirm the fuse capacity indication, Ⓢ or mark on the holder.

REF.NO	Capacity and mark	Indication on P.C.board	Version
F901	T400mA	T400mA	B/E/EN/G
F902	T6.3A	T6.3A	B/E/EN/G

5. The parts on the pattern side of the printed circuit board must be fixed with spacers or bond.
6. Wires must be clamped or secured at the locations shown in the figure so that the wire do not touch to live parts, moving part , hot part, or sharp edges.
7. Following parts are controlled as the heated parts. confirm that the flammable parts are lifted up the parts in ( ) must be controled.
   • IC901, IC31, Q9201,R1001, R1002, Heat sink, IC holder(For IC901, IC31), IC Holder +Diode





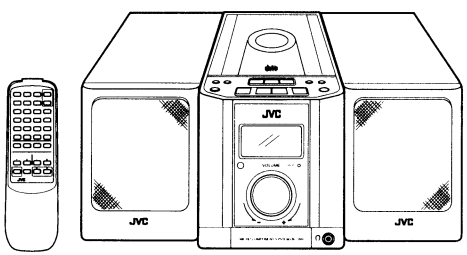
JVC

ULTRA MICRO COMPONENT SYSTEM

SISTEMA DE MICROCOMPONENTES

SISTEMA A MICROCOMPONENTI

UX-1000 E



COMPACT disc DIGITAL AUDIO

INSTRUCTIONS

INSTRUCCIONES

MANUALE DI ISTRUZIONI

(No. 1981) 5

ENGLISH

Thank you for purchasing this JVC product. Please read these instructions carefully before starting operation to be sure to obtain optimum performance and a longer service life from the unit.

ESPAÑOL

Le agradecemos la adquisición de este producto de JVC. Por favor lea detenidamente las instrucciones antes de comenzar la operación para obtener de esta unidad un rendimiento óptimo y una vida de servicio más larga.

ITALIANO

Grazie per avere acquistato questo prodotto JVC. Si prega di leggere queste istruzioni con attenzione prima dell'uso per essere certi di ottenere prestazioni ottimali ed una lunga durata dell'unità.

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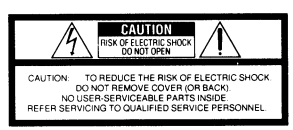
WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

ADVERTENCIA:
PARA REDUCIR EL RIESGO DE INCENDIO O DE CHOQUES ELECTRICOS, NO EXPONGA ESTE APARATO A LA LLUVIA O A LA HUMEDAD.

AVVERTENZA:
NON ESPORRE L'APPARECCHIO A PIOGGIA O UMIDITA' ONDE RIDURRE I RISCHI DI FIAMME O SCOSSE ELETTRICHE.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Per l'Italia:
"Si dichiara che il questo prodotto di marca JVC è conforme alle prescrizioni del Decreto Ministeriale n.548 del 28/08/95 pubblicato sulla Gazzetta Ufficiale della Repubblica Italiana n.301 del 28/12/95."

IMPORTANT FOR LASER PRODUCTS

PRECAUTIONS

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IMPORTANTE PARA PRODUCTOS LASER

PRECAUCIONES

1. PRODUCTO LASER CLASE 1
2. **PELIGRO:** Radiación láser invisible cuando se abre, falla o se desactiva el enclavamiento. Evite la exposición directa al rayo.
3. **PRECAUCION:** No abra la cubierta trasera. Dentro de la unidad no hay componentes que el usuario pueda reparar; deje toda reparación al personal de servicio cualificado.
4. **PRECAUCION:** El reproductor de CD utiliza radiación láser invisible y está equipado con interruptores de seguridad que evitar la emisión de radiación cuando se abre el portadisco de CD o compartimiento del CD. Es peligroso desactivar los interruptores de seguridad.
5. **PRECAUCION:** La utilización de los controles de ajuste y de procedimientos que no estén especificados aquí, puede resultar en exposición a radiación peligrosa.

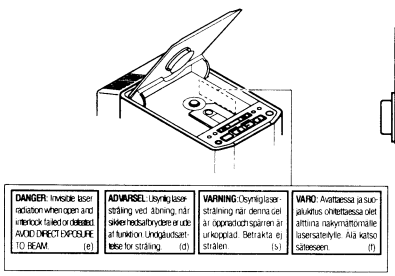
IMPORTANTI PRECAUZIONI PER PRODOTTI LASER

PRECAUZIONI

1. *PRODOTTO LASER DI CLASSE 1*
2. **PERICOLO:** *Quando l'apparecchio è aperto ed i dispositivi di sicurezza non funzionano o sono stati disattivati, vengono prodotte invisibili radiazioni laser. Evitare l'esposizione diretta al raggio.*
3. **ATTENZIONE:** *Non aprire la copertura posteriore. All'interno dell'unità non vi sono parti che possono interessare l'utente; fare eseguire qualsiasi intervento a personale di assistenza qualificato.*
4. **ATTENZIONE:** *Il lettore CD utilizza radiazioni laser invisibili ed è fornito di interruttori di sicurezza per evitare l'emissione di tali radiazioni quando il piatto del CD è aperto. Non escludere tali interruttori di sicurezza in quanto ciò è pericoloso.*
5. **ATTENZIONE:** *L'uso di comandi e procedure diversi da quanto specificato possono risultare nell'esposizione a radiazioni pericolose.*

3. Instructions

REPRODUCTION OF LABELS AND THEIR LOCATION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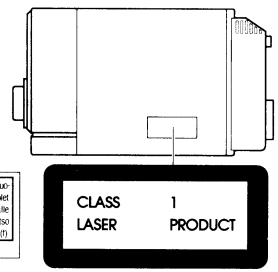
VARO: Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättomälle lasersäteilylle. Älä katso säteeseen. (f)

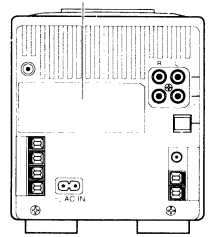
REPRODUCCION DE ETIQUETAS Y SU UBICACION



Obs:
Apparaten innehåller laserkomponent av högre laserklass än klass 1.

ETICHETTE E LORO POSIZIONE

Name/Rating plate
Placa de nombre/especificaciones
Piastrina nome/caratteristiche



FEATURES

- CD-size micro component system consisting of 3 units
- Active Hyper-Bass PRO circuit for low-frequency sound reproduction
- One-touch operation (COMPU PLAY)
- 36-key remote control unit
- Multi-function CD player
- Programmed play of up to 20 tracks
- Repeat Play
- Random Play
- 2-band digital synthesizer tuner with 30-station (15 FM and 15 AM (MW/LW)) preset capability
- Seek/manual tuning
- Auto preset tuning
- Timer/Clock function
- Timer on/off with preset volume function
- Sleep timer can be set for up to 120 minutes
- Dimmer button
- Optical digital output
- Subwoofer output

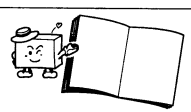
CARACTERISTICAS

- Sistema de microcomponentes del tamaño de un CD, consistente de 3 unidades
- Circuito Active Hyper-Bass PRO para reproducción sonidos de baja frecuencia
- Operación de un solo toque (COMPU PLAY)
- Unidad de control remoto con 36 teclas
- Reproductor de CD con funciones múltiples
- Reproducción programada hasta 20 pistas
- Repetición de reproducción
- Reproducción aleatoria
- Sintonizador sintetizador digital de 2 bandas con capacidad para presintonización de 30 estaciones (15 de FM y 15 de AM (OM/OL))
- Sintonización búsqueda/manual
- Sintonización programada automática
- Función de temporizador/reloj
- Activación/desactivación del temporizador con función de volumen preajustado
- El temporizador despertador puede ser programado hasta un máximo de 120 minutos
- Botón atenuador
- Salida digital óptica
- Salida del altavoz de subgraves

CARATTERISTICHE

- *Sistema a microcomponenti formato CD consistente di 3 unità*
- *Circuito Active Hyper-Bass PRO di nuova concezione per la riproduzione delle basse frequenze*
- *Funzionamento ad un tocco (COMPU PLAY)*
- *Unità di telecomando a 36 tasti*
- *Lettore CD multifunzione*
- *Riproduzione programmata di fino a 20 brani*
- *Riproduzione ripetuta*
- *Riproduzione casuale*
- *Sintonizzatore a sintetizzazione digitale a 2 bande con capacità di preselezione di fino a 30 stazioni (15 FM e 15 AM (MW/LW))*
- *Sintonizzazione con ricerca/manuale*
- *Sintonizzazione con preselezione automatica*
- *Funzione timer/orologio*
- *Funzione di attivazione e disattivazione via timer con preimpostazione del volume*
- *Il timer per lo spegnimento automatico può essere impostato per fino a 120 minuti*
- *Tasto illuminazione*
- *Uscita digitale ottica*
- *Uscita subwoofer*

SAFETY PRECAUTIONS



Prevention of Electric Shocks, Fire Hazards and Damage

1. Even when the POWER button is set to STANDBY, a very small current will flow. To save power and for safety when not using the unit for an extended period of time, disconnect the power cord from the household AC outlet.
2. Do not handle the power cord with wet hands.
3. When unplugging from the wall outlet, always grasp and pull the plug, not the power cord.
4. Consult your nearest dealer when damage, disconnection, or contact failure affects the cord.
5. Do not bend the cord severely, or pull or twist it.
6. Do not modify the power cord in any manner.
7. To avoid accidents, do not remove screws to disassemble the unit and do not touch anything inside the unit.
8. Do not insert any metallic objects into the unit.
9. Unplug the power cord when there is a possibility of lightning.
10. If water gets inside the unit, unplug the power cord from the outlet and consult your dealer.
11. Do not block the unit's ventilation holes that allow heat to escape.
    Do not install the unit in a badly ventilated place.
12. Since this unit uses a motor-driven CD holder or CD tray, make sure that your hand or other object does not obstruct holder or tray movement.

PRECAUCIONES DE SEGURIDAD

Prevención de choques eléctricos, peligro de incendio y daños

1. Aunque el botón de alimentación POWER, esté colocado en espera STANDBY, fluye una pequeñísima corriente eléctrica. Para ahorrar energía y por seguridad cuando no utiliza esta unidad durante un largo periodo, desconecte el cordón eléctrico del tomacorriente de CA.
2. No manipule el cordón eléctrico con las manos mojadas.
3. Cuando lo desenchufa del tomacorriente de la pared, sujételo siempre por el enchufe, nunca por el cordón.
4. En caso de que el cordón sea afectado por daños, desconexión, o falso contacto, consulte a su agente más cercano.
5. No doble en ángulo agudo el cordón, no jale del mismo ni lo retuerza.
6. No modifique el cordón eléctrico de ninguna manera.
7. Para evitar accidentes, no extraiga los tornillos para desarmar la unidad y no toque nada dentro de la misma.
8. No inserte ningún objeto metálico dentro de la unidad.
9. Desenchufe el cordón eléctrico cuando haya posibilidad de caída de rayos.
10. Si se introduce agua dentro de la unidad, desenchufe el cordón eléctrico del tomacorriente y consulte a su agente.
11. No bloquee los orificios de ventilación de la unidad que permiten el escape de calor.
    No instale la unidad en un lugar mal ventilado.
12. Como esta unidad utiliza un portadisco o una bandeja de CD motorizado, asegúrese de que su mano u otro objeto no obstruya el movimiento del mismo.

PRECAUZIONI PER LA SICUREZZA

Prevenzione di scosse elettriche, fiamme e danni

1. *Anche quando l'interruttore POWER si trova sulla posizione STANDBY, una piccola quantità di corrente continua a fluire. Per risparmiare energia e per ragioni di sicurezza, scollegare il cavo dell'alimentazione dalla presa di corrente CA quando si prevede di non utilizzare l'unità per un periodo prolungato.*
2. *Non maneggiare il cavo di alimentazione con le mani bagnate.*
3. *Per scollegarsi dalla presa di rete, afferrare sempre la spina e non il cavo dell'alimentazione.*
4. *Consultare il rivenditore più vicino quando il cavo è danneggiato, scollegato o con contatti scadenti.*
5. *Non piegare eccessivamente il cavo, non tirarlo e non torcerlo.*
6. *Non modificare il cavo di alimentazione in alcun modo.*
7. *Per evitare incidenti, non rimuovere viti per smontare l'unità e non toccare alcun componente interno.*
8. *Non inserire alcun oggetto metallico nell'unità.*
9. *Scollegare il cavo di alimentazione durante temporali con fulmini.*
10. *Se dell'acqua dovesse penetrare all'interno dell'unità, scollegare il cavo dell'alimentazione dalla presa di rete e consultare il proprio rivenditore.*
11. *Non bloccare i fori per la ventilazione dell'unità che permettono la dissipazione del calore.*
    Non installare l'unità in un luogo con ventilazione scadente.
12. *Dato che questa unità utilizza un piatto o caricatore de CD motorizzato, accertarsi di non ostruire il movimento con una mano o un oggetto.*

POWER button
When the power cord is connected to a household AC outlet, the power indicator lights in red indicating the STANDBY mode. When the POWER button is pressed, the power indicator goes out and the display window lights.

When this unit is plugged into an AC outlet, it consumes a small current to operate the remote control and timer, or to back up the memory of the microprocessor, even when the POWER button is set to STANDBY.

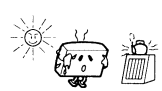
Botón POWER
Cuando se conecta el cordón eléctrico al tomacorriente de CA, el indicador de alimentación se enciende en rojo indicando el modo STANDBY. Cuando presiona el botón POWER, el indicador de alimentación se apaga y se enciende la ventanilla de indicación.

Esta unidad consume una pequeña corriente cuando se la conecta a un tomacorriente de CA, para hacer funcionar el controlador remoto y el temporizador, o para apoyo de la memoria del microprocesador, aún cuando se haya colocado el botón POWER en STANDBY.

Tasto POWER
Quando il cavo di alimentazione è collegato con una presa di rete CA, l'indicatore dell'alimentazione si illumina in rosso per indicare il modo STANDBY. Quando il tasto POWER viene premuto, l'indicatore dell'alimentazione si spegne ed il display si illumina.

Quando questa unità è collegata ad una presa di corrente CA, essa consuma una piccola quantità di corrente per il funzionamento del telecomando e del timer o per il mantenimento della memoria del microprocessore anche quando il tasto POWER è impostato su STANDBY.

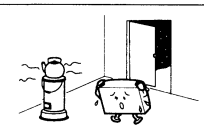
HANDLING PRECAUTIONS



Do not use this unit in direct sunlight where it would be exposed to high temperatures above 40°C (104°F).

1. **Avoid installing in the following places**
   - Where it could be subject to vibrations.
   - Where it is excessively humid, such as in a bathroom.
   - Where it could be magnetized by a magnet or speaker.
2. **Pay attention to dust**
   Be sure to close the CD holder or CD tray so that dust does not collect on the lens. Do not touch the lens.

PRECAUCIONES DE MANIPULACION



No utilice esta unidad bajo la luz directa del sol donde podria quedar expuesta a temperaturas superiores a 40°C.

1. **Evite instalarla en los siguientes lugares**
   - Donde pueda ser sujeta a vibraciones.
   - Donde haya humedad excesiva, tal como en un cuarto de baño.
   - Donde pueda ser magnetizada por un imán o altavoz.
2. **Preste atención al polvo**
   Asegúrese de cerrar el portadisco o compartimiento de CD para que el polvo no se deposite sobre la lente. No toque la lente.

PRECAUZIONI PER L'USO

Non utilizzare questa unità in luoghi esposti alla luce solare diretta dove la temperatura può superare i 40°C.

1. **Evitare l'installazione nei luoghi seguenti**
   - *In luoghi dove l'unità può essere soggetta a vibrazioni.*
   - *In luoghi eccessivamente umidi come una stanza da bagno.*
   - *In luoghi dove l'unità può essere magnetizzata da un magnete o da un diffusore.*
2. **Fare attenzione alla polvere**
   Accertarsi di chiudere il piatto del CD in modo che la polvere non si raccolga sulla lente del pickup. Non toccare la lente del pickup.

3. **Condensation**
In the following cases, condensation may occur in the unit, in which case the unit may not operate correctly.
- In a room where a heater has just been switched on.
- In a place where there is smoke or high humidity.
- When the unit is moved directly from a cold to a warm room.

In these cases, set the POWER button to ON and wait 1 or 2 hours before use.

4. **Volume setting**
CDs produce very little noise compared with analog sources. If the volume level is adjusted for these sources, the speakers may be damaged by the sudden increase of output level. Therefore, lower the volume before operation and adjust it as required during play.

5. **Safety mechanism**
This unit incorporates a safety interlock mechanism which switches the laser beam on and off, so that when the CD holder or CD tray is open, the laser beam stops automatically.

6. **Do not place cassette tapes, etc. near the speakers**
Since there are magnets in the speakers, do not place tapes or magnetic cards on them as recorded data could be erased.

7. **Keep this unit away from your TV**
When this unit is used near a TV, the TV picture could be distorted. If this happens, move this unit away from the TV. If this does not correct the situation, avoid using this unit when the TV is turned on.

8. **Cleaning the cabinet**
If the cabinet gets dirty, wipe it with a soft, dry cloth. Never use benzine or thinner as these could damage the surface finish.

9. **When listening with headphones**
- Do not listen at high volumes as this could damage your hearing.

3. **Condensación**
En los siguientes casos, puede producirse condensación dentro de la unidad y en consecuencia la unidad no funcionará correctamente.
- En una sala donde haya un calentador encendido.
- En un lugar donde haya humo o gran humedad.
- Cuando se traslada rápidamente la unidad de una sala fría a una templada.

En estos casos, coloque el botón POWER en ON (conectado) y espere 1 o 2 horas antes de utilizarla.

4. **Ajuste del volumen**
Los productos de CD producen muy poco ruido comparados con las fuentes analógicas. Si ajusta el nivel de volumen para estas fuentes, es posible que los altavoces sean dañados por el incremento brusco del nivel de salida. Por ello, reduzca el volumen antes de la operación y ajústelo como desee durante la reproducción.

5. **Mecanismo de seguridad**
Esta unidad posee un mecanismo de enclavamiento de seguridad que apaga y enciende el rayo láser de tal manera que cuando se abre el portadisco o compartimiento de CD, el rayo láser se apaga automáticamente.

6. **No coloque cassettes de cinta, etc., próximos a los altavoces**
Como hay imanes en los altavoces, no coloque cintas o tarjetas magnéticas sobre los mismos, ya que los datos grabados pueden ser borrados.

7. **Mantenga esta unidad lejos de su TV**
Cuando se usa esta unidad próxima a un TV, la imagen de éste puede ser distorsionada. Si ello ocurre, mueva esta unidad lejos del TV. Si esto no corrige el problema, evite usar esta unidad cuando el TV está encendido.

8. **Limpieza del gabinete**
Si el gabinete se ensucia límpielo con un paño suave y seco. Nunca utilice bencina o solventes ya que estos pueden dañar la terminación de la superficie.

9. **Cuando escuche con auriculares**
- No escuche con el volumen muy alto porque podrían dañarse sus oídos.

3. **Condensa**
Nei casi seguenti della condensa si potrebbe formare nell'unità impedendo il funzionamento corretto dell'unità stessa.
- *In una stanza in cui il riscaldamento è appena stato acceso.*
- *In un luogo fumoso o con elevata umidità.*
- *Quando l'unità viene spostata direttamente da una stanza fredda ad una calda.*

In questi casi, portare il tasto POWER su ON ed attendere 1 o 2 ore prima di utilizzare l'unità.

4. **Impostazione del volume**
I CD producono un rumore estremamente basso se confrontati con fonti analogiche. Se il livello del volume fosse impostato per tali fonti, i diffusori potrebbero venire danneggiati dall'improvviso aumento del livello in uscita. Abbassare perciò il volume prima dell'uso e regolarlo quindi durante la riproduzione.

5. **Meccanismo di sicurezza**
Questa unità incorpora un meccanismo di sicurezza che attiva e disattiva il raggio laser in modo che quando il piatto del CD è aperto il raggio laser viene disattivato automaticamente.

6. **Non posare nastri a cassetta, ecc., in prossimità dei diffusori**
Dato che i diffusori incorporano dei magneti, non posare nastri registrati o schede magnetiche su di essi in quanto i materiali registrati potrebbero venire cancellati.

7. **Tenere l'unità lontana dal televisore**
Quando questa unità viene utilizzata in prossimità di un televisore, l'immagine TV potrebbe venire distorta. Se ciò dovesse accadere, allontanare l'unità dal televisore. Se ciò non fosse sufficiente ad eliminare le interferenze, evitare di utilizzare questa unità quando il televisore è acceso.

8. **Pulizia dell'esterno dell'unità**
Se l'esterno dell'unità fosse sporco, strofinare con un panno morbido ed asciutto.
Non usare mai benzina o diluente in quanto essi possono danneggiare la finitura delle superfici.

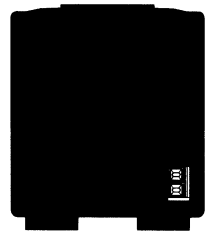
9. **Ascolto con le cuffie**
- *Non ascoltare ad alto il volume in modo da danneggiare le orecchie.*

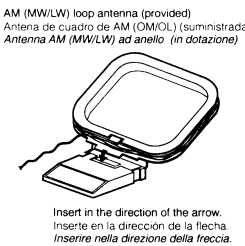
CONNECTIONS

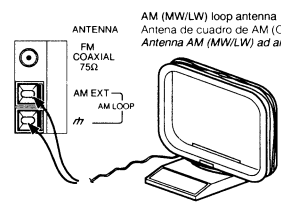
- Do not switch the power on until all connections are completed.

Antenna connection and adjustment

- AM (MW/LW) loop antenna adjustment

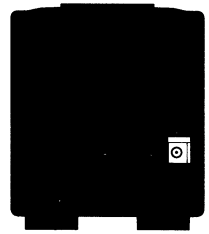


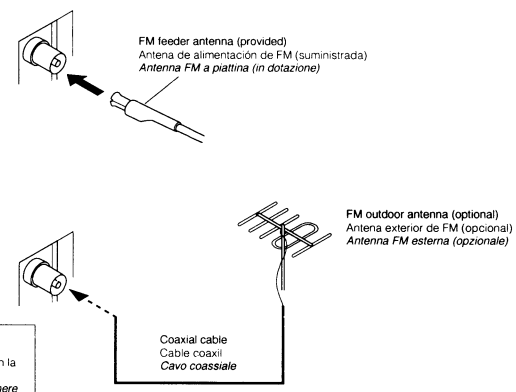

AM (MW/LW) loop antenna (provided)
Antena de cuadro de AM (OM/OL) (suministrada)
Antenna AM (MW/LW) ad anello (in dotazione)
Insert in the direction of the arrow.
Inserte en la dirección de la flecha.
Inserire nella direzione della freccia.



- Keep the loop antenna away from the unit and install it so that the best reception is obtained. (Do not leave the antenna wire in a bundle.)
- Conserve la antena de cuadro separada de la unidad e instálela de tal manera que se obtenga la mejor recepción. (No deje arrollado el cable de la antena.)
- *Tenere l'antenna ad anello lontana dall'unità ed installarla in modo da ottenere la migliore ricezione possibile. (Non lasciare avvolto il filo dell'antenna).*

- FM antenna connections and adjustments





- Use an outdoor antenna when stable reception cannot be obtained with the provided antenna.
- Cuando no sea posible obtener una recepción estable con la antena suministrada, utilice una antena exterior.
- *Utilizzare un'antenna esterna quando non è possibile ottenere una ricezione stabile per mezzo dell'antenna in dotazione.*

Notes:
- Do not place the loop antenna on a metal desk or near a TV or personal computer.
- Installing an outdoor antenna requires expertise; we recommend that you consult an audio dealer.
- Install the antenna cord away from the power and speaker cords as these could generate noise. Do not install the loop antenna so that it touches the rear of the unit.

CONEXIONES

- No conecte la alimentación hasta haber completado todas las conexiones.

Conexión y ajuste de la antena

- Ajuste de la antena de cuadro para AM (OM/OL)

- Conexiones y ajuste de la antena de FM

Notas:
- No coloque la antena de cuadro sobre un escritorio de metal o cerca de un TV o computador personal.
- La instalación de una antena externa requiere conocimientos; nosotros le recomendamos que consulte con su agente de audio.
- Coloque el cable de la antena lejos de los cordones de alimentación y de los altavoces ya que estos pueden generar interferencia. Cuando instale la antena de cuadro no permita que entre en contacto con la parte trasera de la unidad.

COLLEGAMENTI

- *Non attivare l'alimentazione prima del completamento dei collegamenti.*

Collegamento e regolazione antenna

- *Regolazione antenna AM ad anello (MW/LW)*

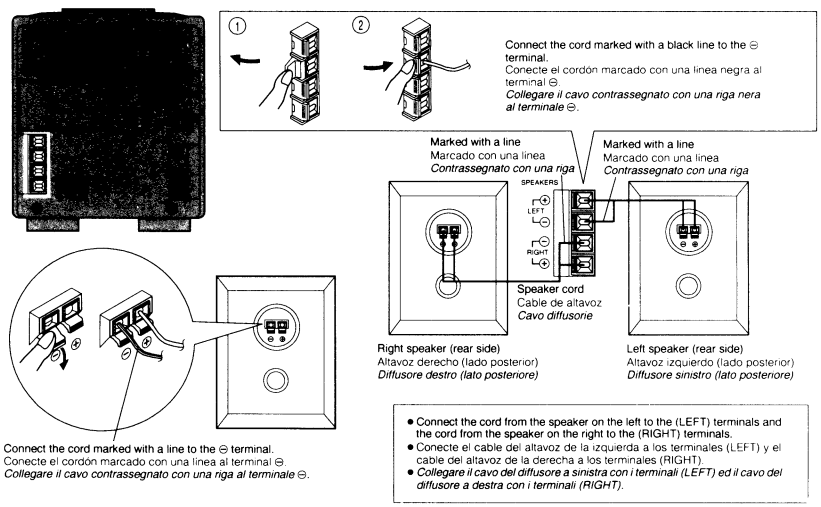
- *Collegamento e regolazione antenna FM*

Note:
- *Non installare l'antenna ad anello su di un tavolo metallico oppure nelle vicinanze di un televisore o di un personal computer.*
- *L'installazione di un'antenna esterna richiede esperienza; si raccomanda di consultare un rivenditore di apparecchiature audio.*
- *Installare il cavo dell'antenna lontano dal cavo di alimentazione e dai cavi dei diffusori in quanto questi potrebbero generare disturbi. Installare l'antenna ad anello in modo che non tocchi il retro dell'unità.*

Speaker cord connection

Conexión de los cordones de los altavoces

Collegamento cavi diffusori


①
②
Connect the cord marked with a black line to the ⊖ terminal.
Conecte el cordón marcado con una línea negra al terminal ⊖.
Collegare il cavo contrassegnato con una riga nera al terminale ⊖.
Marked with a line
Marcado con una línea
Contrassegnato con una riga
Marked with a line
Marcado con una línea
Contrassegnato con una riga
SPEAKERS
LEFT
RIGHT
Speaker cord
Cable de altavoz
Cavo diffusorie
Right speaker (rear side)
Altavoz derecho (lado posterior)
Diffusore destro (lato posteriore)
Left speaker (rear side)
Altavoz izquierdo (lado posterior)
Diffusore sinistro (lato posteriore)
Connect the cord marked with a line to the ⊖ terminal.
Conecte el cordón marcado con una línea al terminal ⊖.
Collegare il cavo contrassegnato con una riga al terminale ⊖.

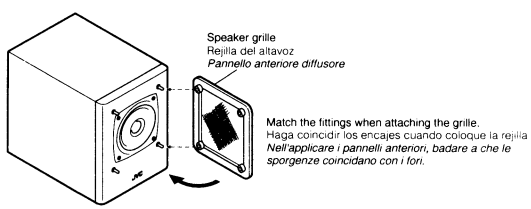
- Connect the cord from the speaker on the left to the (LEFT) terminals and the cord from the speaker on the right to the (RIGHT) terminals.
- Conecte el cable del altavoz de la izquierda a los terminales (LEFT) y el cable del altavoz de la derecha a los terminales (RIGHT).
- *Collegare il cavo del diffusore a sinistra con i terminali (LEFT) ed il cavo del diffusore a destra con i terminali (RIGHT).*

- The speaker grilles can be removed.
  - When removing.
  1. Insert your fingers at the top and pull towards you.
  2. Also pull the bottom towards you.

- Las rejillas de los altavoces pueden ser extraídas.
  - Cuando las extraiga.
  1. Inserte los dedos en la parte superior y jale hacia usted.
  2. También jale el botón hacia usted

- *Il pannello anteriore dei diffusori può venire tolto.*
  - *Per toglierlo.*
  1. *Inserire le dita in alto e tirare verso di sé.*
  2. *Tirare anche il fondo verso di sé.*

- Attaching the speaker grille
- Colocación de la rejilla del altavoz
- *Applicazione del pannello anteriore al diffusore*


Speaker grille
Rejilla del altavoz
Pannello anteriore diffusore
Match the fittings when attaching the grille.
Haga coincidir los encajes cuando coloque la rejilla
Nell'applicare i pannelli anteriori, badare a che le sporgenze coincidano con i fori.

Notes:
- The polarity of the two connected speakers will be the same if the speaker cords marked with a black line are connected to the ⊖ terminals. If the speakers are connected with polarities reversed, stereo effect and tone will be degraded.
- The speakers of this unit are not magnetically shielded. When they are placed directly on or adjacent to a TV, the TV's picture could be distorted. Install the speakers more than 20 cm away from your TV.
- If the speakers are to be placed away from the main unit, purchase optional speaker cords from an audio store.
- When connecting the speaker cord make sure that the wire core, not the insulating cover, is connected to the speaker terminal. Otherwise, sound cannot be heard.

Notas:
- La polaridad de los dos altavoces conectados es la misma si los cables para altavoz marcados con la línea negra son conectados a los terminales ⊖. Si se conectan los altavoces con las polaridades invertidas, se degradará el efecto estereofónico y el tono.
- Los altavoces de esta unidad no están blindados magnéticamente. Cuando se los coloca directamente o adyacentes a un TV, la imagen de éste puede ser distorsionada. Instale los altavoces a más de 20 cm. de distancia de su TV.
- Si los altavoces van a ser colocados lejos de la unidad principal, adquiera los cordones opcionales para altavoces en una tienda de audio.
- Cuando conecta el cordón del altavoz, asegúrese de que el núcleo del cable, y no la cubierta aislante, quede conectado al terminal del altavoz, de lo contrario no se escuchará sonido.

Note:
- *La polarità dei diffusori collegati è la stessa se i loro cavi contrassegnati da una riga nera vengono collegati ai terminali ⊖. Se i diffusori vengono collegati con le polarità invertite, l'effetto stereofonico ed i toni possono degradarsi.*
- *I diffusori di questa unità non sono schermati magneticamente. Se essi vengono installati sopra a o in prossimità di un televisore, l'immagine potrebbe venire distorta. Installare i diffusori a più di 20 centimetri dal televisore.*
- *Se si intende installare i diffusori in una posizione lontana dall'unità, acquistare cavi audio opzionali presso un rivenditore di apparecchiature audio.*
- *Nel collegare i cavi dei diffusori, controllare che sia l'anima in rame del cavo e non l'isolante a fare presa col morsetto. La riproduzione risulta altrimenti impossibile.*

Connection of external audio units

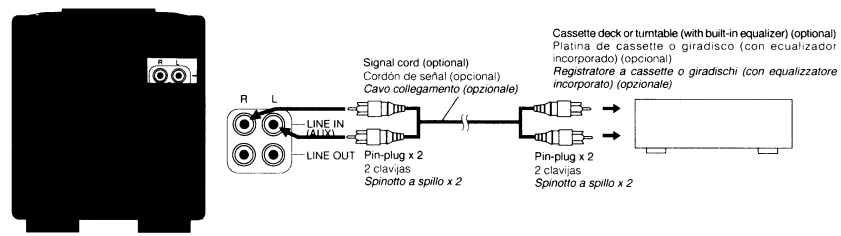
Conexión de unidades externas de audio

Collegamento di componenti esterni

- **Connection with a cassette deck or turntable, etc. (Line input) (AUX)**
  It is possible to connect an external cassette deck or turntable to this unit and play back sound from these sources.

- **Conexión con una platina de cassette o giradisco, etc. (Entrada de línea) (AUX)**
  Es posible conectar una platina externa de cassette o un giradisco a esta unidad y reproducir el sonido de estas fuentes.

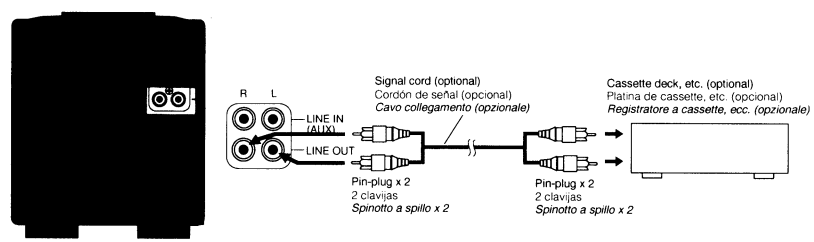
- **Collegamento con un registratore a cassette e un giradischi, ecc. (Ingresso di linea) (AUX)**
  E' possibile collegare un registratore a cassette o un giradischi a questa unità e quindi riprodurre il suono prodotto da queste fonti.


R L
LINE IN (AUX)
LINE OUT
Signal cord (optional)
Cordón de señal (opcional)
Cavo collegamento (opzionale)
Pin-plug x 2
2 clavijas
Spinotto a spillo x 2
Cassette deck or turntable (with built-in equalizer) (optional)
Platina de cassette o giradisco (con ecualizador incorporado) (opcional)
Registratore a cassette o giradischi (con equalizzatore incorporato) (opzionale)
Pin-plug x 2
2 clavijas
Spinotto a spillo x 2

- **Connection with a cassette deck, etc. (analog output)**
  When recording from this unit's CD player or radio to an external cassette deck, etc., connect the cord from this unit's line out terminals to the input terminals of the cassette deck, etc.

- **Conexión con una platina de cassette, etc. (salida analógica)**
  Cuando graba desde el reproductor de CD o de la radio de esta unidad en una platina externa de cassette, etc. conecte el cordón de los terminales de salida de esta unidad a los terminales de entrada de la platina de cassette, etc.

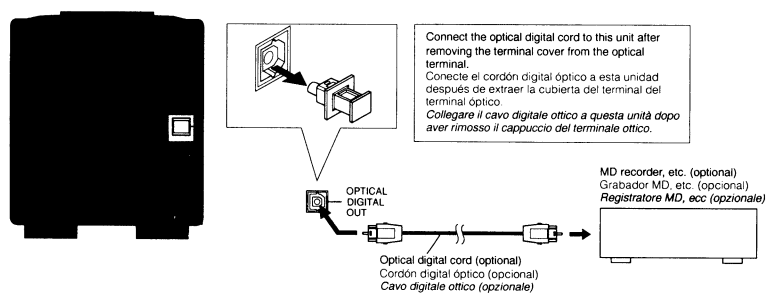
- **Collegamento con un registratore a cassette, ecc. (uscita analogica)**
  Quando si registra dal lettore CD o radio di questa unità su un registratore a cassette esterno, ecc., collegare il cavo proveniente dai terminali di uscita di linea di questa unità ai terminali di ingresso del registratore a cassette, ecc.



- **Connection with an MD recorder, etc. (digital output)**
  It is possible to transmit a digital sound signal from the CD player of this unit directly to an external MD recorder, etc. that is equipped with an optical input terminal. In this case, connect the cord from this unit's CD optical digital output terminal to the optical input terminal of the MD recorder, etc.

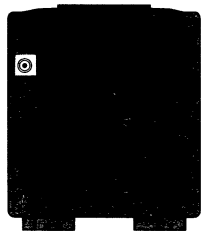
- **Conexión con un grabador MD, etc. (salida digital)**
  Es posible transmitir una señal de sonido digital desde el reproductor de CD a esta unidad directamente a un grabador MD externo, etc., que esté equipado con un terminal de entrada óptica. En este caso, conecte el cordón del terminal de salida digital óptica de esta unidad de CD al terminal de entrada óptica del grabador MD, etc.

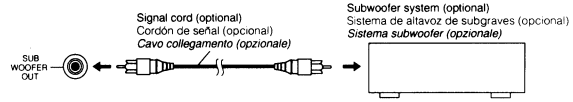
- **Collegamento con un registratore MD, ecc. (uscita digitale)**
  E' possibile trasmettere il segnale digitale del lettore CD di questa unità direttamente ad un registratore MD esterno, ecc., fornito di un terminale di ingresso ottico. In questo caso, collegare l'uscita digitale ottica del lettore CD al terminale di ingresso ottico del registratore MD, ecc.


Connect the optical digital cord to this unit after removing the terminal cover from the optical terminal.
Conecte el cordón digital óptico a esta unidad después de extraer la cubierta del terminal del terminal óptico.
Collegare il cavo digitale ottico a questa unità dopo aver rimosso il cappuccio del terminale ottico.
OPTICAL DIGITAL OUT
MD recorder, etc. (optional)
Grabador MD, etc. (opcional)
Registratore MD, ecc (opzionale)
Optical digital cord (optional)
Cordón digital óptico (opcional)
Cavo digitale ottico (opzionale)

- An optical digital cord (optional) is required to make this connection. Refer to the instruction manual of the MD recorder, etc. for details.

- **Connection with a subwoofer system (Subwoofer output)**
  It is possible to connect an external JVC subwoofer system, etc. to this unit.





Note:
Even when headphones are connected to the unit, sound from the subwoofer is not cut off. If you wish to listen to sound from the headphones only, turn off the subwoofer's power or turn down its volume, or disconnect the subwoofer's cord.

Note:
Regarding the connection with external units and their operations, refer to the instructions provided with those units.

- Es necesario utilizar un cordón digital óptico (opcional), para efectuar esta conexión. Por detalles, refiérase al manual de instrucciones del grabador MD, etc.

- **Conexión con un sistema de altavoz de subgraves (Salida del altavoz de subgraves)**
  Es posible conectar un sistema JVC de altavoz de subgraves externo, etc. a esta unidad.

Nota:
Aunque los audífonos estén conectados a la unidad, el sonido del altavoz de subgraves no se silencia, Si usted desea escuchar el sonido proveniente de los audífonos solamente, desconecte la alimentación del altavoz de subgraves o baje el volumen del mismo, o desconecte el cordón del altavoz de subgraves.

Nota:
En relación a la conexión de unidades externas y sus operaciones, refiérase a las instrucciones suministradas con esas unidades.

- *Per eseguire questo collegamento è necessario un cavo digitale ottico (opzionale). Vedere il manuale di istruzioni del registratore MD, ecc., per ulteriori dettagli.*

- **Collegamento con un sistema subwoofer (Uscita subwoofer)**
  E' possibile collegare un sistema subwoofer esterno JVC, ecc., a questa unità.

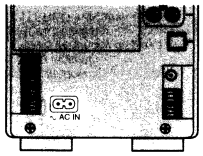
Nota:
Il subwoofer funziona anche se si usano cuffie. Perché taccia, spegnerlo, abbassarne il volume o scollegame il cavo.

Nota:
Per il collegamento con unità esterne ed il loro funzionamento, vedere le istruzioni fornite in dotazione a tali unità.

POWER SUPPLY / ALIMENTACION / ALIMENTAZIONE

Connection of AC power cord

- Connect the AC power cord after all other connections have been made.



CAUTIONS:
1. **ONLY USE WITH JVC POWER CORD PROVIDED WITH THIS UNIT TO AVOID MALFUNCTION OR DAMAGE TO THE UNIT.**
2. **BE SURE TO UNPLUG THE POWER CORD FROM THE OUTLET WHEN GOING OUT OR WHEN THE UNIT IS NOT IN USE FOR AN EXTENDED PERIOD OF TIME.**

Note:
- When there is a power failure or the AC power cord is disconnected, the timer/clock setting is erased from memory. Reset the clock when the power supply is restored.

Conexión del cordón de CA

- Conecte el cordón de CA después de haber terminado todas las conexiones.

PRECAUCIONES:
1. **PARA EVITAR FALLAS O DAÑOS EN LA UNIDAD UTILICE EL CORDON DE ALIMENTACION DE JVC SUMINISTRADO CON ESTA UNIDAD.**
2. **ASEGURESE DE DESENCHUFAR EL CORDON DE ALIMENTACION DEL TOMACORRIENTES CUANDO SALGA O CUANDO NO VAYA A UTILIZAR LA UNIDAD POR UN LARGO PERIODO.**

Nota:
- Cuando hay un corte de energía eléctrica o cuando se desconecta el cordón de alimentación CA, el ajuste del temporizador/reloj se borra de la memoria. Reposicione el reloj cuando se restaure el suministro eléctrico.

Collegamento del cavo di alimentazione CA

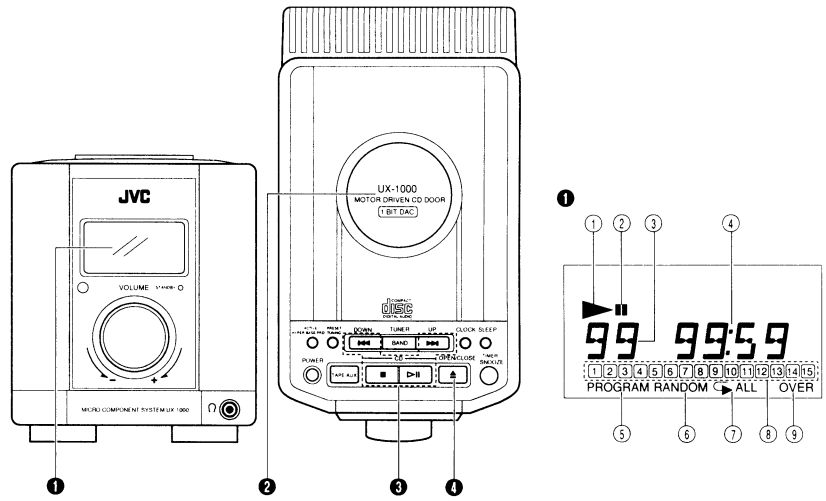
- *Collegare il cavo di alimentazione CA dopo aver eseguito tutti gli altri collegamenti.*

PRECAUZIONI:
1. **UTILIZZARE SOLO IL CAVO DI ALIMENTAZIONE JVC IN DOTAZIONE A QUESTA UNITA' PER EVITARE DISFUNZIONI O DANNI ALL'UNITA' STESSA.**
2. **ACCERTARSI DI SCOLLEGARE IL CAVO DI ALIMENTAZIONE DALLA PRESA DI RETE QUANDO SI ESCE O QUANDO SI PREVEDE DI NON UTILIZZARE L'UNITA' PER UN PERIODO PROLUNGATO.**

Nota:
- *Quando si verifica un'interruzione di corrente oppure quando il cavo di alimentazione CA viene scollegato, l'impostazione del timer/orologio viene cancellata dalla memoria. Reimpostare l'orologio quando l'alimentazione viene riattivata.*

NAMES OF PARTS AND THEIR FUNCTIONS / NOMBRES DE LAS PARTES Y SUS FUNCIONES / NOMI E FUNZIONI DELLE PARTI

CD player section / Sección del reproductor de CD / Sezione lettore CD

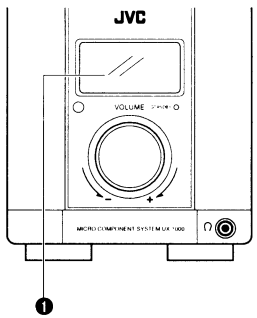


❶ Display window
  ① Playback indicator (►)
  ② Pause indicator (❚❚)
  ③ Function/Track number display
  ④ Play time display
  ⑤ Program mode indicator (PROGRAM)
  ⑥ RANDOM play indicator
  ⑦ Repeat play indicator (⊂ ALL)
  ⑧ Music calender display
  ⑨ OVER indicator
❷ CD holder
❸ CD operation buttons
  Stop/clear button (■):
  Press to stop playing a CD or cancel programmed play. This also sets the CD mode.
  Play/pause button (▷❚❚):
  Press to play a CD or to stop temporarily.
  CD SEARCH buttons (|◄◄, ►►|):
  Press to locate the beginning of a track and to start forward/reverse search operations.
❹ CD holder (▲) OPEN/CLOSE button

❶ Ventanilla de indicación
  ① Indicador (►) de reproducción
  ② Indicador (❚❚) de pausa
  ③ Indicación de función/número de pista
  ④ Indicación del tiempo de reproducción
  ⑤ Indicador del modo de programa (PROGRAM)
  ⑥ Indicador de reproducción aleatoria (RANDOM)
  ⑦ Indicador de repetición de reproducción total (⊂ ALL)
  ⑧ Indicación del calendario musical
  ⑨ Indicador de sobrepasado (OVER)
❷ Compartimiento del CD
❸ Botones para operación del CD
  Botón (■) de parada/borrado:
  Presiónelo para detener la reproducción de un disco o cancelar la reproducción programada. Este también activa el modo de CD.
  Botón (▷❚❚) de reproducción/pausa:
  Presiónelo para reproducir un disco o para parar temporariamente.
  Botones (|◄◄, ►►|) de búsqueda (SEARCH) del CD:
  Presiónelos para ubicar el principio de una pista o para iniciar las operaciones de búsqueda hacia adelante/atrás.
❹ Botón (▲) de abertura/cierre (OPEN/CLOSE) del compartimiento del CD

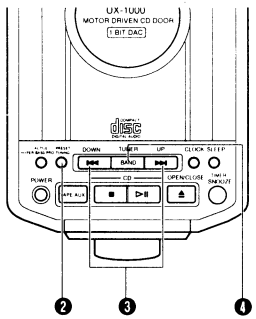
❶ *Finestrella display*
  ① *Indicatore di riproduzione (►)*
  ② *Indicatore di pausa (❚❚)*
  ③ *Display funzione/numero brano*
  ④ *Display tempo di riproduzione*
  ⑤ *Indicatore modo programmazione (PROGRAM)*
  ⑥ *Indicatore riproduzione casuale (RANDOM)*
  ⑦ *Indicatore riproduzione ripetuta (⊂ ALL)*
  ⑧ *Display tavola musicale*
  ⑨ *Indicatore OVER*
❷ *Piatto CD*
❸ *Tasti funzionamento lettore CD*
  Tasto arresto/cancellazione (■):
  Premere questo tasto per interrompere la riproduzione di un CD o per cancellare la riproduzione programmata. Questo tasto imposta anche il modo del CD.
  Tasto riproduzione/pausa (▷❚❚):
  Premere questo tasto per riprodurre un CD oppure per interrompere temporaneamente la riproduzione.
  Tasti CD SEARCH (|◄◄, ►►|):
  Premere questi tasti per localizzare l'inizio di un brano o per avviare le operazioni di ricerca in avanti/all'indietro.
❹ *Tasto apertura/chiusura piatto CD (▲) (OPEN/CLOSE)*

Tuner section



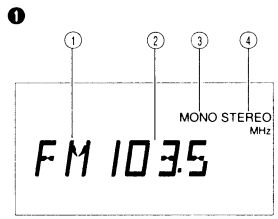
❶ Display window
 ① Band indicator
 ② Radio frequency display
 ③ MONO indicator
 ④ STEREO indicator
❷ PRESET TUNING button
❸ Tuning buttons (UP/DOWN)
❹ TUNER/BAND button:
 Press to select tuner mode.
 Press to select the band.

Sección del sintonizador



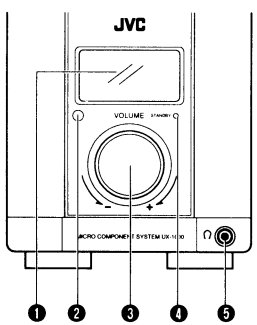
❶ Ventanilla de indicación
 ① Indicador de banda
 ② Indicación de frecuencia de radio
 ③ Indicador monofónico (MONO)
 ④ Indicador estereofónico (STEREO)
❷ Botón de presintonización (PRESET TUNING)
❸ Botones arriba/abajo de sintonización (UP/DOWN)
❹ Botón sintonizador/banda (TUNER/BAND):
 Presiónelo para seleccionar el modo de sintonizador.
 Presiónelo para seleccionar la banda.

Sezione sintonizzatore



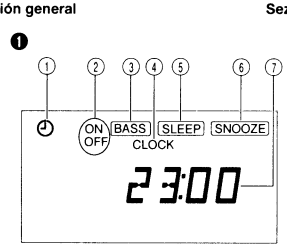
❶ *Finestrella display*
 ① *Indicatore banda*
 ② *Display frequenza*
 ③ *Indicatore mono (MONO)*
 ④ *Indicatore stereo (STEREO)*
❷ *Tasto sintonizzazione preselezioni (PRESET TUNING)*
❸ *Tasti sintonizzazione alto/basso (UP/DOWN)*
❹ *Tasto sintonizzatore/banda (TUNER/BAND):*
 Premere questo tasto per selezionare il modo del sintonizzatore.
 Premere questo tasto per selezionare la banda.

General section



❶ Display window
 ① Timer mode indicator
 ② Timer indicator (ON/OFF)
 ③ ACTIVE HYPER-BASS PRO indicator (BASS)
 ④ CLOCK indicator
 ⑤ SLEEP indicator
 ⑥ SNOOZE indicator
 ⑦ Time display
  Volume level display
  Bass/Treble level display
❷ Remote sensor section
❸ VOLUME control knob
❹ Power STANDBY indicator
❺ Headphones jack (∩) (3.5 mm dia. stereo mini)
 Connect headphones (impedance 16 Ω to 1 kΩ) to this jack. Speaker sound is automatically switched off when the headphones are connected.

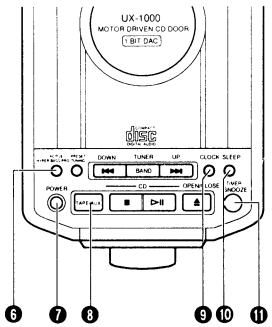
Sección general



❶ Ventanilla de indicación
 ① Indicador del modo de temporizador
 ② Indicador de activación/desactivación (ON/OFF) del temporizador
 ③ Indicador de hiper grave activo profesional (BASS)
 ④ Indicador CLOCK
 ⑤ Indicador SLEEP
 ⑥ Indicador SNOOZE
 ⑦ Indicación de hora
  Indicación de nivel de volumen
  Indicación de nivel de grave/agudo
❷ Sección sensor remoto
❸ Perilla de control VOLUME
❹ Indicador de espera (STANDBY) de alimentación
❺ Jack de audífonos (∩) (mini estéreo de 3,5 mm. de diám.)
 Conecte los audífonos (impedancia de 16 Ω a 1 kΩ), a este jack. El sonido de los altavoces se apaga automáticamente cuando se conectan los audífonos.

Sezione generale

❶ *Finestrella display*
 ① *Indicatore modo timer*
 ② *Indicatore timer (ON/OFF)*
 ③ *Indicatore Active Hyper-bass Pro (BASS)*
 ④ *Indicatore orologio (CLOCK)*
 ⑤ *Indicatore SLEEP*
 ⑥ *Indicatore SNOOZE*
 ⑦ *Display orario*
  Display livello volume
  Display livello bassi/acuti
❷ *Sezione sensore telecomando*
❸ *Manopola VOLUME*
❹ *Indicatore di apparecchio in attesa (STANDBY)*
❺ *Presa cuffie (∩) (mini stereo diam. 3,5 mm) Collegare le cuffie (impedenza da 16 Ω a 1 kΩ) a questa presa. Il suono dei diffusori viene eliminato automaticamente quando le cuffie vengono collegate.*



❻ ACTIVE HYPER-BASS PRO button
❼ POWER button
❽ TAPE/AUX button
❾ CLOCK button
❿ SLEEP button
⓫ TIMER/SNOOZE button

❻ Botón de hiper grave activo profesional (ACTIVE HYPER-BASS PRO)
❼ Botón de alimentación (POWER)
❽ Botón TAPE/AUX
❾ Botón del reloj (CLOCK)
❿ Botón del temporizador de desconexión (SLEEP)
⓫ Botón TIMER/SNOOZE

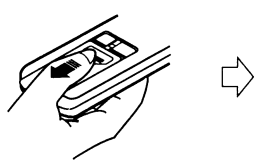
❻ *Tasto Active Hyper-Bass Pro (ACTIVE HYPER-BASS PRO)*
❼ *Tasto alimentazione (POWER)*
❽ *Tasto TAPE/AUX*
❾ *Tasto orologio (CLOCK)*
❿ *Tasto spegnimento automatico (SLEEP)*
⓫ *Tasto TIMER/SNOOZE*

REMOTE CONTROL UNIT

Preparation before use

- **Installing batteries in the remote control unit**

1. Remove the battery cover from the back of the remote control unit.
2. Insert two "R6/AA (15F)" size batteries.
 - Insert the batteries with the ⊕ and ⊖ terminals matching the indication inside the battery compartment.



3. Replace the cover.

- **Battery replacement**
 When the remote control operation becomes unstable or the distance from which remote control is possible decreases, replace the batteries.

Using the remote control unit

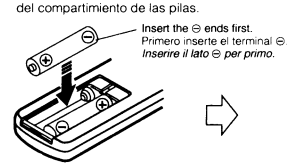
- Point at the remote sensor section and operate within about 7 m (approx. 23 ft).
- The remote control range is less when the unit is used at an angle.
- Do not expose the remote sensor section to strong direct sunlight or artificial lighting.
- Make sure that there are no obstacles between the remote sensor section and the remote control unit.

UNIDAD DE CONTROL REMOTO

Preparativos antes usarla

- **Instalación de las pilas en la unidad de control remoto**

1. Extraiga la tapa de las pilas de la parte trasera de la unidad de control remoto.
2. Inserte dos pilas de tamaño "R6/AA (15F)".
 - Inserte las pilas con los terminales ⊕ y ⊖ de acuerdo a la indicación en el interior del compartimiento de las pilas.



3. Recoloque la tapa.

- **Reemplazo de las pilas**
 Cuando el funcionamiento del controlador remoto se vuelve inestable o la distancia dentro de la cual actúa se reduce, reemplace las pilas.

Utilización de la unidad de control remoto

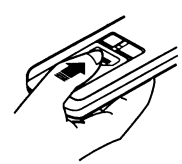
- Apúntelo a la sección del sensor remoto y opere dentro de los 7 m.
- El alcance del control remoto es menor cuando se lo usa en ángulo.
- No exponga la sección del sensor remoto a la luz directa del sol o a una fuerte iluminación artificial.
- Asegúrese de que no haya obstáculos entre la sección del sensor remoto y el control remoto.

UNITA' DI TELECOMANDO

Preparativi prima dell'uso

- **Installazione delle batterie nel telecomando**

1. *Rimuovere il coperchio del vano batterie dal retro del telecomando.*
2. *Inserire due batterie di formato "R6/AA (15F)".*
 - *Inserire le batterie con i terminali ⊕ e ⊖ orientati come indicato all'interno del vano stesso.*



3. Reinstallare il coperchio.

- **Sostituzione batterie**
 Quando il funzionamento dell'unità di telecomando è intermittente oppure quando la distanza utile diminuisce, sostituire le batterie.

Uso dell'unità di telecomando

- *Puntare l'unità verso la sezione del sensore del telecomando ed utilizzarla entro un'area di 7 metri.*
- *Il campo di utilizzo del telecomando è inferiore quando l'unità viene utilizzata da una posizione angolata.*
- *Non esporre la sezione del sensore del telecomando alla luce solare diretta o a una forte illuminazione artificiale.*
- *Accertarsi che non vi siano ostacoli tra la sezione del sensore del telecomando e l'unità di telecomando.*

The following operations can be performed using the remote control unit.

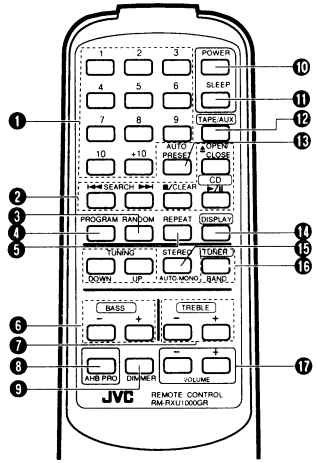
- **Check the operation button functions carefully and operate them correctly.**

Las siguientes operaciones deben ser ejecutadas utilizando la unidad de control remoto.

- **Compruebe detalladamente el funcionamiento de los botones de operación y opérelos correctamente.**

Le operazioni seguenti possono essere eseguite utilizzando l'unità di telecomando.

- **Controllare con attenzione le funzioni dei tasti ed utilizzare quest'ultimi in modo corretto.**

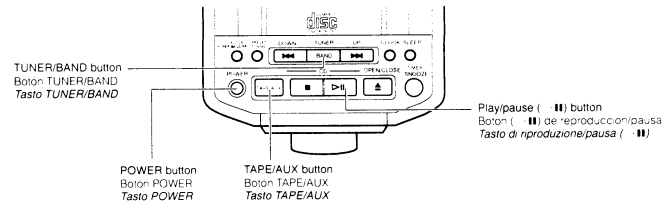


❶ Track number buttons (No. 1 to No. 10, +10)
Preset station buttons (No. 1 to No. 10, +10)
❷ CD operation buttons
CD holder (⏏) OPEN/CLOSE button
Play/pause button (►/❚❚):
Press to play a CD or to stop temporarily.
Stop (■)/CLEAR button
SEARCH (|◄◄, ►►|) buttons
❸ RANDOM play button
❹ PROGRAM button
❺ REPEAT play button
❻ BASS buttons (+, –)
(Control range from –6 to 6.)
❼ TREBLE buttons (+, –)
(Control range from –6 to 6.)
❽ ACTIVE HYPER-BASS (AHB) PRO button
❾ DIMMER button
❿ POWER button
⓫ SLEEP button
⓬ TAPE/AUX button
⓭ AUTO PRESET button
⓮ DISPLAY button
Use to display the current time.
⓯ STEREO AUTO/MONO button
⓰ Radio operation buttons
TUNER/BAND button:
Press to select tuner mode.
Press to select the band.
Tuning buttons (UP/DOWN)
⓱ VOLUME buttons (+, –)

❶ Botones (No. 1 a No. 10, +10) de número de pista
Botones (No. 1 a No. 10, +10) de estación presintonizada
❷ Botones para operación del CD
Botón (⏏) de abertura/cierre (OPEN/CLOSE) del compartimiento del CD
Botón (►/❚❚) de reproducción/pausa.
Presiónelo para reproducir un CD o para pararlo temporariamente.
Botón de parada/borrado (■/CLEAR)
Botones de búsqueda (SEARCH)
(|◄◄, ►►|)
❸ Botón de reproducción aleatoria (RANDOM)
❹ Botón programa (PROGRAM)
❺ Botón de repetición de reproducción (REPEAT)
❻ Botones de grave (BASS) (+, –)
(Límites de control de –6 a 6.)
❼ Botón de agudos (TREBLE) (+,–)
(Límites de control de –6 a 6.)
❽ Botón de hiper grave activo profesional (ACTIVE HYPER-BASS (AHB) PRO)
❾ Botón DIMMER
❿ Botón de alimentación (POWER)
⓫ Botón del temporizador de desconexión (SLEEP)
⓬ Botón TAPE/AUX
⓭ Botón de presintonización automática (AUTO PRESET)
⓮ Botón de indicación (DISPLAY)
Utilícelo para llamar la hora actual.
⓯ Botón estereofónico automático/monofónico (STEREO AUTO/MONO)
⓰ Botones para operación de la radio
Botón sintonizador/banda (TUNER/BAND):
Presiónelo para seleccionar el modo de sintonizador.
Presiónelo para seleccionar la banda.
Botones arriba/abajo de sintonización (UP/DOWN)
⓱ Botones de volumen (VOLUME) (+, –)

❶ *Tasti numeri di brano (dal No. 1 al No. 10, +10)*
Tasti stazioni preselezionate (dal No. 1 al No. 10, +10)
❷ *Tasti funzionamento lettore CD*
Tasto apertura/chiusura piatto CD (⏏) (OPEN/CLOSE)
Tasto riproduzione/pausa (►/❚❚):
Premerlo per riprodurre un CD o per interrompere temporaneamente la riproduzione.
Tasto arresto/cancellazione (■/CLEAR)
Tasti ricerca (SEARCH) (|◄◄, ►►|)
❸ *Tasto riproduzione casuale (RANDOM)*
❹ *Tasto programmazione (PROGRAM)*
❺ *Tasto riproduzione ripetuta (REPEAT)*
❻ *Tasti bassi (BASS) (+, –)*
(Gamma controllo da –6 a 6.)
❼ *Tasti acuti (TREBLE) (+, –)*
(Gamma controllo da –6 a 6.)
❽ *Tasto Active Hyper-Bass Pro (ACTIVE HYPER-BASS (AHB) PRO)*
❾ *Tasto DIMMER*
❿ *Interruttore alimentazione (POWER)*
⓫ *Tasto spegnimento automatico (SLEEP)*
⓬ *Tasto TAPE/AUX*
⓭ *Tasto preselezione automatica (AUTO PRESET)*
⓮ *Tasto display (DISPLAY)*
Utilizzarlo per visualizzare l'orario corrente.
⓯ *Tasto stereo auto/mono (STEREO AUTO/MONO)*
⓰ *Tasti funzionamento sintonizzatore*
Tasto sintonizzatore/banda (TUNER/BAND):
Premere questo tasto per selezionare il modo del sintonizzatore.
Premere questo tasto per selezionare la banda.
Tasti sintonizzazione alto/basso (UP/DOWN)
⓱ *Tasti volume (VOLUME) (+, –)*

SWITCHING THE POWER ON/OFF — CONEXION/DESCONEXION DE LA ALIMENTACION — ACCENSIONE E SPEGNIMENTO



Switching the power on/off
- Switching on:

STANDBY ○

The STANDBY indicator goes out.
The display window lights.

- Switching off:

STANDBY

The STANDBY indicator lights.
The display window's light goes out and only the clock is indicated.

Conexión/desconexión de la alimentación
- Conexión:

STANDBY ○

Se apaga la indicación STANDBY
La pantalla de visor se enciende.

- Desconexión.

STANDBY

Se enciende el indicador STANDBY
La luz del visor de indicación se apaga y solo queda indicado el reloj.

Accensione e spegnimento dell'unità
- *Accensione:*

STANDBY ○

L'indicatore STANDBY si spegne.
Il display si illumina.

- *Spegnimento:*

STANDBY

L'indicatore STANDBY si illumina.
La luce della finestrella display si spegne e rimane visibile il solo orologio.

One touch operation (COMPU PLAY)

Even when the power is set to STANDBY, pressing the button shown below switches on the power and selects the source.

Operación de un solo toque (COMPU PLAY)

Cuando la alimentación está colocada en STANDBY, el presionar el botón mostrado abajo conecta la alimentación y selecciona la fuente.

Funzionamento ad un solo tocco (COMPU PLAY)

Anche se l'unità si trova nel modo STANDBY, premendo uno dei tasti indicati di seguito essa si accende e una sorgente di segnale viene attivata.

	Function mode Modo de función *Modo di funzionamento*	Operations Operaciones *Operazioni*
►/❚❚	CD	When this button is pressed with a CD loaded, CD playback begins. Cuando se presiona este botón habiendo un CD colocado, comienza la reproducción del mismo. *Se questo tasto viene premuto a lettore CD carico, la riproduzione del CD ha immediatamente inizio.*
TUNER / BAND	TUNER	When this button is pressed, the tuner is engaged. Cuando se presiona este botón, se activa el sintonizador. *Se questo tasto viene premuto, il sintonizzatore si accende.*
TAPE/AUX	TAPE/AUX	A sound source connected to the LINE IN (AUX) terminal can be engaged. Es posible activar una fuente de sonido que esté conectada al terminal LINE IN (AUX). *Può attivare una sorgente di segnale collegata al terminale LINE IN (AUX).*

When the (⏏) OPEN/CLOSE button is pressed, the sound source does not switch, but the CD holder can open or close.

Notes:
- When switching off the power, be sure to press the POWER button.
- The COMPU PLAY button on the remote control has the same function as that on the main unit.

Cuando se presiona el botón (⏏) OPEN/CLOSE la fuente de sonido no se conmuta, pero se puede abrir o cerrar el compartimiento del CD.

Notas:
- Para desconectar la alimentación asegúrese de presionar el botón POWER.
- El botón COMPU PLAY del controlador remoto tiene la misma función que el de la unidad principal.

Quando il tasto OPEN/CLOSE (⏏) viene premuto, la fonte sonora non cambia ma il piatto del CD viene aperto o chiuso.

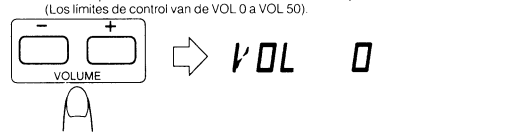
Note:
- *Spegnere l'unità solo premendo il tasto POWER.*
- *Il tasto COMPU PLAY del telecomando possiede le stesse funzioni di quello omonimo dell'unità principale.*

VOLUME, TONE AND OTHER CONTROLS — VOLUMEN, TONO Y OTROS CONTROLES — VOLUME, TONI ED ALTRI COMANDI

VOLUME buttons (using the remote control unit)
+ : Use to increase the volume.
– : Use to decrease the volume.
(Control range from VOL 0 to VOL 50.)

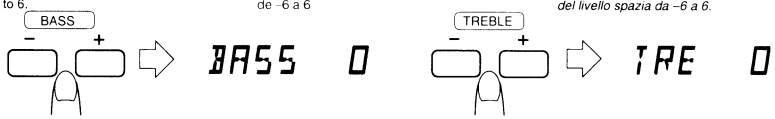
Botones VOLUME (usando el mando a distancia)
+ : Uselo para aumentar el volumen.
– : Uselo para reducir el volumen.
(Los límites de control van de VOL 0 a VOL 50).

Tasti VOLUME (con l'unità di telecomando)
+ : Per aumentare il volume.
– : Per diminuire il volume.
(Gamma controllo volume da VOL 0 a VOL 50).



- When the power is switched on, the sound is faded in from volume level 0 (zero) to the level used before the power is switched off. (While the fade in mode is engaged, operating the VOLUME buttons or control knob interrupts fading.)

BASS/TREBLE buttons (using the remote control unit)
To set the bass or treble level, press the corresponding button. The level setting ranges from –6 to 6.



ACTIVE HYPER-BASS PRO button
ON: The BASS indicator lights up. Set to this position to activate ACTIVE HYPER-BASS PRO sound.
OFF: The BASS indicator goes out. Set to this position when ACTIVE HYPER-BASS PRO sound is not required.

DIMMER button (using the remote control unit)
- When the power is switched on:
  Pressing this button dims the display window's light. When the button is pressed again, the display window returns to its normal brightness.
- When the power is switched off:
  When you want to look at the clock display, press this button; the display window lights with subdued brightness, and after 10 seconds, will go out. (The power is switched off.)
  - Within those 10 seconds, all buttons except one touch operation buttons and TIMER/SNOOZE button do not function.

- Cuando se conecta la alimentación, el sonido se escucha gradualmente desde el nivel de volumen 0 (cero), al nivel usado antes de desconectar la alimentación. (Mientras el modo de atenuación está activado, el operar los botones VOLUME o el mando de control, interrumpe la atenuación).

Botones BASS/TREBLE (usando el mando a distancia)
Para ajustar el nivel de grave o agudo, presione el botón correspondiente. El ajuste de nivel va de –6 a 6

Botón de hiper graves activos profesionales (ACTIVE HYPER-BASS PRO)
ON: Se enciende el indicador BASS. Colóquelo en esta posición para activar el sonido hiper grave activo profesional.
OFF: Se apaga el indicador BASS. Colóquelo en esta posición cuando no desee escuchar el sonido de hiper grave activo profesional.

Botón DIMMER (usando el mando a distancia)
- Cuando se conecta la alimentación:
  El presionar el botón reduce la luz del visor de indicación. Si presiona el botón otra vez, el visor de indicación vuelve a su brillo normal.
- Cuando la alimentación está desconectada:
  Cuando usted desee ver la indicación del reloj, presione este botón; se encenderá el visor de indicación con brillo mortecino, y después de 10 segundos se apagará. (La alimentación está desconectada).
  - Dentro de esos 10 segundos ningún otro botón que no sean los botones de operación de un sólo toque y el botón TIMER/SNOOZE funciona.

- *Quando l'alimentazione viene attivata, il volume viene aumentato gradualmente dal livello 0 (zero) al livello utilizzato prima di disattivare l'alimentazione stessa. (Mentre il modo di dissolvenza in ingresso è attivato, l'uso dei tasti VOLUME o della manopola di controllo interrompe la dissolvenza).*

Tasti BASS/TREBLE (con l'unità di telecomando)
Per impostare il livello dei bassi o degli acuti, premere il tasto corrispondente. L'impostazione del livello spazia da –6 a 6.

Tasto ACTIVE HYPER-BASS PRO
ON: L'indicatore BASS si illumina. Selezionare questa impostazione per attivare la funzione Active Hyper Bass Pro.
OFF: L'indicatore BASS si spegne. Selezionare questa impostazione per disattivare la funzione Active Hyper Bass Pro.

Tasto DIMMER (con l'unità di telecomando)
- *Quando l'alimentazione è attivata:*
  La pressione di questo tasto attenua l'illuminazione del display. Quando il tasto viene premuto nuovamente, il display ritorna alla luminosità normale.
- *Quando l'alimentazione è disattivata:*
  Premere questo tasto quando si desidera vedere la visualizzazione dell'orologio; il display si illumina leggermente e si spegne dopo 10 secondi. (L'alimentazione viene disattivata).
  - *Entro tali 10 secondi, tutti i tasti, esclusi i tasti con funzionamento ad un tocco ed il tasto TIMER/SNOOZE, non funzionano.*

HANDLING CDs

Since dirty, damaged and warped CDs may damage the unit, take care regarding the following:

1. **Usable CDs**
   Use CDs with the mark shown.

2. **Notes on handling CDs**
   - Do not touch the reflective recorded surface.
   - Do not stick or write anything on the label side.
   - Do not bend CDs.

3. **Storage**
   - After removing a CD from the unit, be sure to put it back in its case.
   - Do not expose CDs to direct sunlight, high temperatures from a heater, etc., high humidity, or dust.

4. **Cleaning CDs**
   - Before loading a CD, wipe off any dust, dirt or fingerprints with a soft cloth. CDs should be cleaned by wiping radially from the center to the edge.

MANIPULACION DE CD

Como los CD sucios, dañados o alabeados pueden dañar la unidad, tome precauciones en relación a lo siguiente:

1. **CD utilizables**
   Utilice CD con la marca indicada.

2. **Notas sobre manipulación de CD**
   - No toque la superficie grabada reflejante.
   - No adhiera ni escriba nada sobre el lado de la etiqueta.
   - No doble los CD.

3. **Almacenamiento**
   - Después de extraer un CD de la unidad, asegúrese de colocarlo otra vez en su caja.
   - No exponga los CD a la luz directa del sol, altas temperaturas provenientes de un calentador, etc., alta humedad, o polvo.

4. **Limpieza de CD**
   - Antes de colocar un CD, limpie el polvo, suciedad o huellas digitales, con un paño suave. Los CD deben ser limpiados radialmente desde el centro hacia el borde.

MANEGGIO DEI CD

Dato che CD sporchi, danneggiati o deformati possono danneggiare l'unità, fare attenzione a quanto segue:

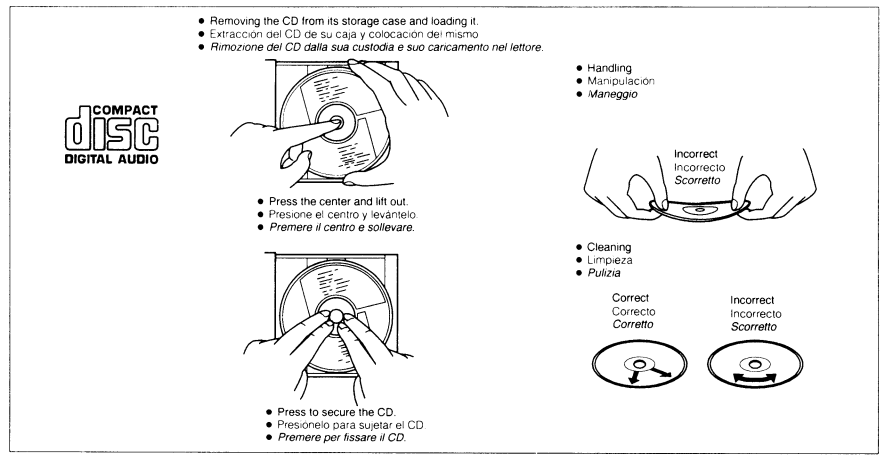
1. **CD utilizzabili**
   Utilizzare solo CD recanti il marchio indicato.

2. **Note sul maneggio dei CD**
   - *Non toccare la superficie registrata iridescente.*
   - *Non incollare o scrivere alcunchè sul lato etichettato.*
   - *Non piegare i CD.*

3. **Conservazione**
   - *Dopo aver rimosso un CD dall'unità, accertarsi di riporlo nella sua custodia.*
   - *Non esporre i CD alla luce solare diretta, a temperature elevate, ad umidità elevate o a polvere.*

4. **Pulizia CD**
   - *Prima di inserire un CD, pulire polvere, sporco o impronte digitali con un panno morbido. I CD devono essere puliti strofinando radialmente, dal centro verso il bordo.*

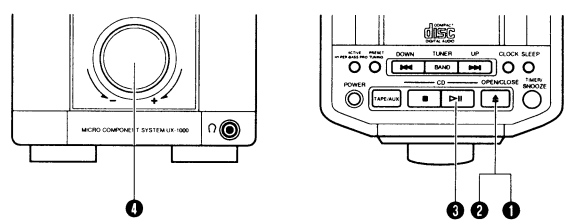
- **Never use thinner, benzine, record cleaner or antistatic spray.**
- **Nunca utilice solvente, bencina, limpiador de discos o aerosol antiestático.**
- **Non utilizzare mai diluente, benzina, liquido pulente per dischi o spray antistatici.**



PLAYING CDs — REPRODUCCION DE CD — RIPRODUZIONE DI CD

Playing an entire CD
The following example of playing an entire CD assumes a CD with 12 tracks and a total playing time of 48 minutes 57 seconds.

Operate in the order shown



❶ Press to open the CD holder. (The power is switched on.)
❷ Load a CD with the label side facing up and close the CD holder.
❸ Press to start play.
- As tracks are played, their track numbers go out one by one.

❹ Adjust.

Note:
When the CD holder is closed by pressing the ▷II button, the CD starts as soon as the CD holder is closed.

- 8-cm (3") CDs can be used in this unit without an adapter.

Reproducción de un CD completo
El siguiente ejemplo de reproducción de un CD completo supone que se ha colocado un CD con 12 pistas y un tiempo total de reproducción de 48 minutos y 57 segundos.

Opere en el orden mostrado

❶ Presione para abrir el compartimiento del CD. (La alimentación está conectada.)
❷ Coloque un CD con la etiqueta apuntando hacia arriba y cierre el compartimiento del CD.
❸ Presione para iniciar la reproducción.
- A medida que las pistas son reproducidas, sus números se borran uno por uno.

❹ Ajuste.

Nota:
Cuando se cierra el compartimiento del CD presionando el botón ▷II, la unidad comienza a reproducir el mismo tan pronto como se cierra el compartimiento del CD.

- Los CD de 8-cm. pueden ser usados con esta unidad sin necesidad de adaptador.

Riproduzione di un intero CD
L'esempio seguente per la riproduzione di un intero CD considera un CD con 12 brani ed un tempo di riproduzione totale di 48 minuti e 57 secondi.

Eseguire le operazioni nell'ordine indicato

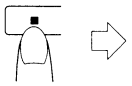
❶ *Premere il tasto per aprire il piatto del CD. (L'alimentazione viene attivata).*
❷ *Inserire un CD col lato etichettato in alto e quindi chiudere il piatto del CD.*
❸ *Premere il tasto per l'avvio della riproduzione.*
- *Quando i brani vengono riprodotti, i loro numeri scompaiono uno alla volta.*

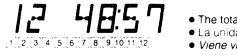
❹ *Regolare.*

Nota:
Quando il piatto del CD viene chiuso premendo il tasto ▷II, la riproduzione del CD si avvia non appena il piatto è chiuso.

- *La riproduzione di CD da 8 cm non richiede l'uso di alcun adattatore.*

- **To stop in the middle of a CD**
  During play, press the stop/clear (■) button to stop play.





- The total number of tracks and total playback time are displayed.
- La unidad indica el número total de pistas y el tiempo total de reproducción.
- *Viene visualizzato il numero totale di brani ed il tempo totale di riproduzione.*

- **To stop a CD temporarily**
  Press the ▷/❚❚ button to stop play temporarily (The "❚❚" indicator lights). When pressed again, play resumes from the point where it was paused.

Caution:
- To change CDs, press the stop/clear (■) button; check that the CD has stopped rotating completely before unloading it.

Notes:
- When no CD is loaded, "NO DISC" is indicated in the display window. This indication may also appear when a CD is loaded upside down.
- The following indication may appear when a CD is dirty or scratched, or when the CD is loaded upside down.
  In such a case, check the CD and insert again after cleaning the CD or turning it over.

- **Do not use the unit at excessively high or low temperatures. The recommended temperature range is from 5°C (41°F) to 35°C (95°F).**
- After play, unload the CD.
- If mistracking occurs during play, lower the volume.

Skip play

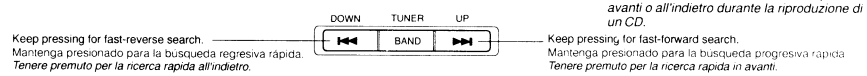
- During play, it is possible to skip forward to the beginning of the next track or back to the beginning of the track being played or the previous track; when the beginning of the required track has been located, play starts automatically.

To listen to the next track...
Press the ▶▶| button once to skip to the beginning of the next track.

To listen to the previous track...
Press the |◀◀ button to skip to the beginning of the track being played. Press twice quickly to skip to the beginning of the previous track.

Search play (to locate the required position on the CD)

- The required position can be located using fast-forward or reverse search while playing a CD.


DOWN
TUNER
UP
BAND
Keep pressing for fast-reverse search.
Mantenga presionado para la búsqueda regresiva rápida.
Tenere premuto per la ricerca rapida all'indietro.
Keep pressing for fast-forward search.
Mantenga presionado para la búsqueda progresiva rápida.
Tenere premuto per la ricerca rapida in avanti.

- Hold down the button; search play starts slowly and then gradually increases in speed.
- Since low-volume sound (at about one quarter of the normal level) can be heard in the search mode, monitor the sound and release the button when the required position is located.

- **Para detener la reproducción de un CD en la mitad de la misma**
  Presione el botón (■) de parada/borrado para detener la reproducción.

- **Para parar un CD temporariamente**
  Presione el botón ▷/❚❚ para detener temporariamente la reproducción. (El indicador "❚❚" se enciende). Si lo presiona otra vez, la reproducción continua desde el punto dónde se efectuó la pausa.

Precaución:
- Para cambiar CD, presione el boton (■) de parada/ borrado; compruebe que el CD haya parado de girar antes de extraerlo.

Notas:
- Cuando no hay ningún CD colocado, se visualiza el mensaje "NO DISC" en el visor de indicación. Esta indicación también puede ser visualizada cuando se coloca un CD invertido.
- La siguiente indicación puede aparecer cuando el CD está sucio o rayado, o cuando se lo ha colocado al reves.
  En tal caso, inspeccione el CD y colóquelo otra vez después de limpiarlo o de girarlo.

- **No utilice la unidad en temperaturas excesivamente altas o bajas. Los límites de temperatura recomendados son de 5°C a 35°C.**
- Después de la reproducción extraiga el CD.
- Si ocurre un error de seguimiento durante la reproducción, baje el volumen.

Reproducción con salto

- Durante la reproducción es posible saltar hacia adelante hasta el principio de la próxima pista o hacia atrás hasta el principio de la pista que está siendo reproducida o de la pista anterior; cuando haya localizado el principio de la pista deseada, la reproducción se inicia automáticamente.

Para escuchar la próxima pista...
Presione una vez el botón ▶▶| para saltar al principio de la próxima pista.

Para escuchar la pista anterior...
Presione el botón |◀◀ para saltar al principio de la pista que está siendo reproducida. Presiónelo dos veces rápidamente para saltar al principio de la pista anterior.

Reproducción con búsqueda (para localizar la posición deseada en el CD)

- La posición deseada puede ser ubicada utilizando la búsqueda de avance rápido o invertida mientras reproduce un CD.

- Mantenga presionado el botón, la búsqueda con reproducción se inicia lentamente y luego aumenta gradualmente la velocidad.
- Como en el modo de búsqueda es posible escuchar el sonido a bajo volumen (aproximadamente a un cuarto del nivel normal), monitoree el sonido y suelte el botón cuando haya localizado la posición deseada.

- **Per l'interruzione nel mezzo di un CD**
  Premere il tasto arresto/cancellazione (■) per interrompere la riproduzione.

- **Per interrompere temporaneamente la riproduzione del CD**
  Premere il tasto ▷/❚❚ per interrompere temporaneamente la riproduzione (l'indicatore "❚❚" si illumina). Quando il tasto viene premuto nuovamente, la riproduzione riprende dalla posizione dove era stata interrotta.

Attenzione:
- *Per cambiare i CD, premere il tasto arresto/ cancellazione (■); controllare che il CD abbia smesso completamente di girare prima di estrarlo.*

Note:
- *Quando non è stato inserito alcun CD, l'indicazione "NO DISC" viene visualizzata nel display. Questa indicazione può apparire anche quando un CD viene inserito capovolto.*
- *L'indicazione seguente potrebbe apparire quando un CD è sporco o graffiato oppure quando il CD viene inserito rovescio.*
  In tali casi, controllare il CD e quindi reinserirlo dopo averlo pulito o voltato.

- **Non utilizzare l'unità con temperature eccessivamente elevate o basse. La gamma raccomandata va dai 5°C ai 35°C.**
- *Dopo la riproduzione, togliere il CD.*
- *Se la lettura del CD fosse scorretta durante la riproduzione, abbassare il volume.*

Riproduzione con salto

- *Durante la riproduzione è possibile saltare all'inizio del brano successivo oppure all'inizio del brano in corso di riproduzione o di un brano precedente; la riproduzione inizia automaticamente quando l'inizio del brano desiderato viene raggiunto.*

Per ascoltare il brano successivo...
Premere una volta il tasto ▶▶| per saltare all'inizio del brano successivo.

Per ascoltare il brano precedente...
Premere il tasto |◀◀ per saltare all'inizio del brano in corso di riproduzione. Premerlo due volte in rapida successione per saltare all'inizio del brano precedente.

Riproduzione con ricerca (per localizzare una determinata posizione sul CD)

- *La posizione desiderata può essere localizzata utilizzando la ricerca rapida in avanti o all'indietro durante la riproduzione di un CD.*

- *Tenere premuto il tasto; la riproduzione con ricerca inizia lentamente e quindi aumenta gradualmente di velocità.*
- *Dato che il suono può essere udito a basso volume (circa un quarto del livello normale) nel modo di ricerca, ascoltare e rilasciare il tasto quando la posizione desiderata viene raggiunta.*

Direct access play (using the remote control unit)

- Pressing any of the track number buttons will start play from the beginning of the designated track without you having to press the ▶/❚❚ button. (This function cannot be used during programmed play.)

❶ Press the ■/CLEAR button to set to the CD mode.
❷ Designate the required track using the track number buttons.

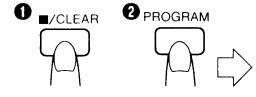
- To designate track numbers 1 to 10, press the track number button corresponding to the track number.
- To designate track number 11 or higher, press the +10 button the required number of times, then a track number button. (Example: To designate the 20th track, press the +10 button once, then press track number button 10.)

* +10 button:
Each time this button is pressed, the number increases by 10. First press this button to set the 10's digit, then press the track number button to set the 1's digit.

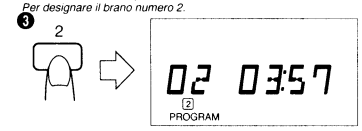
- **To skip to another track during play**
  When the required track number button is pressed, the display shows the designated track number and play starts from the beginning of the designated track.

Programmed play (using the remote control unit)

- Up to 20 tracks can be programmed to be played in any required order.
  The total playing time of programmed tracks is displayed (up to 99 minutes, 59 seconds).
  (Example: When programming the 2nd track to be played first, and the 6th track next, then the 12th track, etc.)



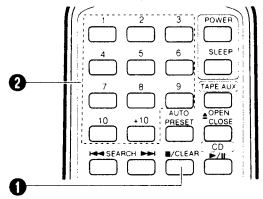
To designate the 2nd track.
Para seleccionar la 2ª pista.
Per designare il brano numero 2.



❶ Press the ■/CLEAR button.
❷ Press the PROGRAM button to set to the programming mode.
❸ Press to designate the required track number.

Reproducción por acceso directo (utilizando la unidad de control remoto)

- Si presiona cualquiera de los botones de numero de pista la reproducción se iniciara desde el principio de la pista escogida sin que tenga que presionar el botón ▶/❚❚ (Esta función no puede ser usada durante la reproducción programada.)



❶ Presione el botón ■/CLEAR para activar el modo de CD.
❷ Seleccione la pista deseada usando los botones de numero de pista.

- Para designar las pistas del numero 1 al 10, presione el botón de número de pista correspondiente a la misma.
- Para designar el número de pista 11 o superior, presione el botón +10 el número necesario de veces, y luego un botón de número de pista. (Ejemplo: Para designar la pista 20, presione el botón +10 una vez, y luego presione el botón 10 de número de pista).

* Botón +10:
Cada vez que presiona este botón el número se incrementa en 10. Primero presione este botón para ingresar las decenas, luego presione el botón de número de pista para ingresar las unidades.

- **Para saltar a otra pista durante la reproducción**
  Cuando presiona el número de pista deseada, la indicación muestra el número de la pista y se inicia la reproducción desde el principio de la pista designada.

Reproducción programada (utilizando la unidad de control remoto)

- Es posible programar un máximo de 20 pistas para reproducción en el orden deseado.
  La unidad indicará el tiempo total de reproducción de las pistas programadas (máximo de 99 minutos, 59 segundos).
  (Ejemplo: Cuando programa la 2ª pista para que sea reproducida primero y la 6ª para ser reproducida a continuación, y luego la pista 12ª, etc.)

❶ Presione el botón ■/CLEAR.
❷ Para activar el modo de programación, presione el botón PROGRAM.
❸ Presione para seleccionar el número deseado de pista.

Riproduzione ad accesso diretto (utilizzando l'unità di telecomando)

- *La pressione di uno qualsiasi dei tasti del numero del brano avvia la riproduzione dall'inizio del brano designato senza dover premere il tasto ▶/❚❚. (Questa funzione non può essere utilizzata durante la riproduzione programmata).*

❶ *Premere il tasto ■/CLEAR per impostare il modo del lettore CD.*
❷ *Designare il brano desiderato utilizzando i tasti dei numeri di brano.*

- *Per designare i numeri di brano da 1 a 10, premere il tasto numerico corrispondente al numero del brano.*
- *Per designare il numero 11 o un numero maggiore, premere il tasto +10 per il numero di volte necessario e quindi un tasto numerico. (Esempio: Per indicare il 20° brano, premere una volta il tasto +10 e quindi il tasto di numero di brano 10).*

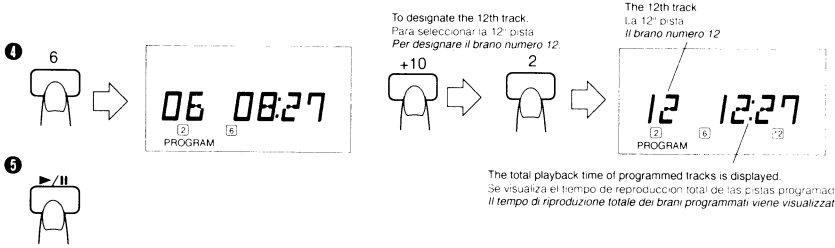
* *Tasto +10:*
Ogni volta che questo tasto viene premuto, il numero aumenta di 10. Premere questo tasto per impostare le decine e quindi premere un tasto numerico per impostare le unità.

- **Per saltare ad un altro brano durante la riproduzione**
  Quando il tasto del numero di brano desiderato viene premuto, il display indica il numero di brano designato e la riproduzione inizia da tale brano.

Riproduzione programmata (utilizzando l'unità di telecomando)

- *Fino a 20 brani possono essere programmati per essere riprodotti in qualsiasi ordine desiderato.*
  Il tempo totale di riproduzione dei brani programmati viene visualizzato (fino a 99 minuti e 59 secondi).
  (Esempio: Quando si programma per riprodurre per primo il brano numero 2, per secondo il brano numero 6, per terzo il brano numero 12, ecc.).

❶ *Premere il tasto ■/CLEAR.*
❷ *Premere il tasto PROGRAM per impostare il modo di programmazione.*
❸ *Designare il numero di brano desiderato con i tasti numerici.*



4 Designate the remaining tracks by pressing the track number buttons.
5 Press the ►/II button when programming is completed. Programmed play starts.

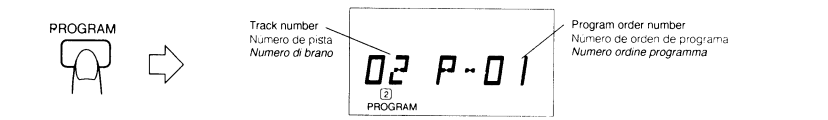
4 Designe las pistas restantes presionando los botones de número de pista.
5 Cuando termine la programación presione el botón ►/II. Se inicia la reproducción programada.

4 *Designare gli altri brani con i tasti numerici.*
5 *Premere il tasto ►/II quando la programmazione è terminata. La riproduzione programmata si avvia.*

To confirm the details of a program...
Press the PROGRAM button; the tracks making up the program will be displayed in programmed order.

Para confirmar los detalles de un programa...
Presione el botón PROGRAM; las pistas que componen el programa serán indicadas en el orden programado.

Per controllare i dettagli di un programma...
Premere il tasto PROGRAM; i brani programmati vengono visualizzati nell'ordine di programmazione.



To clear the programmed tracks...
Press the ■/CLEAR button before playing a CD. During programmed play, press this button twice. When the CD holder is opened, programmed tracks are cleared automatically.

Notes:
- If the total playing time of the programmed tracks exceeds 99 minutes 59 seconds, the total playing time indication will go out.
- When a CD with 16 or more tracks is loaded, the "OVER" indicator will appear.

Para borrar las pistas programadas...
Presione el botón ■/CLEAR antes de reproducir el CD. Durante la reproducción programada presione este botón dos veces. Cuando se abre el compartimiento del CD, las pistas programadas se borran automáticamente.

Notas:
- Si el tiempo total de reproducción de las pistas programadas excede los 99 minutos y 59 segundos, se apagará la indicación de tiempo total de reproducción.
- Cuando se coloca un CD con 16 pistas o más, aparecerá la indicación "OVER".

Per cancellare i brani programmati...
Premere il tasto ■/CLEAR prima di riprodurre un CD. Durante la riproduzione programmata, premere questo tasto due volte. Quando il piatto del CD viene aperto, i brani programmati vengono cancellati automaticamente.

Note:
- *Se la durata dei brani programmati per la riproduzione supera i 99 minuti e 59 secondi, l'indicazione della durata della riproduzione scompare dal display.*
- *Se viene caricato un CD contenente 16 brani o più, l'indicazione "OVER" si illumina.*

Repeat play (using the remote control unit)

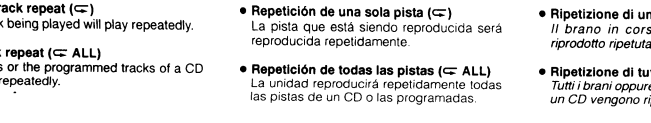
Press the REPEAT button before or during play. A single track or all the tracks can be repeated. Whether a single track or all tracks are to be repeated can be specified. Each time the REPEAT button is pressed, the mode will change from a single track (⊂), to all the tracks (⊂ ALL), to the clear mode, in this order.

Repetición de reproducción (utilizando la unidad de control remoto)

Presione el botón REPEAT antes o durante la reproducción. Es posible repetir un o todas las pistas.
Es posible especificar la reproducción de una sola o de todas las pistas. Cada vez que presiona el botón REPEAT el modo cambiará de la siguiente manera: una sola pista (⊂), a todas las pistas (⊂ ALL), al modo de borrado, en este orden.

Riproduzione ripetuta (utilizzando l'unità di telecomando)

Premere il tasto REPEAT prima o durante la riproduzione. E' possibile ripetere un singolo brano oppure tutti i brani.
E'possibile specificare la ripetizione di un brano o di tutti i brani. Ogni volta che il tasto REPEAT viene premuto, il modo cambia da ripetizione di un singolo brano (⊂) a ripetizione di tutti i brani (⊂ ALL) al modo di cancellazione, in questo ordine.



- **Single track repeat (⊂)**
  The track being played will play repeatedly.
- **All track repeat (⊂ ALL)**
  All tracks or the programmed tracks of a CD will play repeatedly.

- **Repetición de una sola pista (⊂)**
  La pista que está siendo reproducida será reproducida repetidamente.
- **Repetición de todas las pistas (⊂ ALL)**
  La unidad reproducirá repetidamente todas las pistas de un CD o las programadas.

- **Ripetizione di un singolo brano (⊂)**
  Il brano in corso di riproduzione viene riprodotto ripetutamente.
- **Ripetizione di tutti i brani (⊂ ALL)**
  Tutti i brani oppure tutti i brani programmati di un CD vengono riprodotti ripetutamente.

Random play (using the remote control unit)

Press the RANDOM button, and all tracks on a CD play once in random order.

Reproducción aleatoria (utilizando la unidad de control remoto)

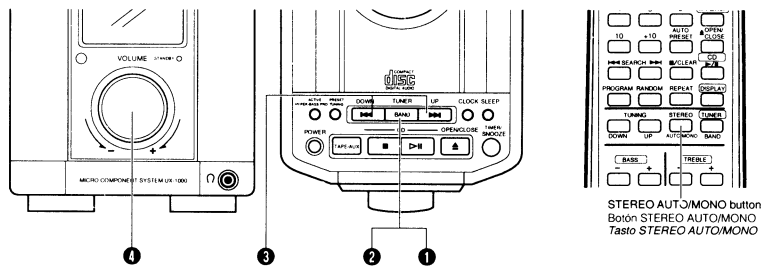
Para reproducir una vez todas las pistas de un CD aleatoriamente, presione el botón RANDOM.

Riproduzione casuale (utilizzando l'unità di telecomando)

Premere il tasto RANDOM e tutti i brani di un CD vengono riprodotti una volta in ordine casuale.

RADIO RECEPTION — RADIORRECEPCION — RICEZIONE CON LA RADIO

Operate in the order shown — **Opere en el orden mostrado** — **Eseguire le operazioni nell'ordine indicato**



1 Press the TUNER/BAND button.
  • The power is switched on and a band and radio frequency will be shown in the display.
2 Select the band.
3 Tune to the required station.
4 Adjust.

1 Presione el botón TUNER/BAND.
  • Se conecta la alimentación y aparece en el visor una banda y una frecuencia de radio.
2 Seleccione la banda.
3 Sintonice la estación deseada.
4 Ajuste.

1 *Premere il tasto TUNER/BAND.*
  • *Il sistema si accende e sul display viene visualizzata la banda e la frequenza.*
2 *Selezionare la banda.*
3 *Sintonizzare la stazione desiderata.*
4 *Regolare.*

STEREO AUTO/MONO button (using the remote control unit)

Auto mode:
Set to this position when listening to or recording an FM stereo broadcast. The STEREO indicator lights when the FM stereo broadcast is received.

MONO:
Set to this position when FM stereo reception is noisy.
When another station is tuned to in the MONO mode, the unit automatically enters Auto mode.

Botón STEREO AUTO/MONO (utilizando la unidad de control remoto)

Modo automático:
Colóquelo en esta posición cuando escucha o graba una radiodifusión estereofónica de FM. El indicador STEREO se enciende cuando se recibe una radiodifusión estereofónica de FM.

MONO:
Colóquelo en esta posición cuando la recepción estereofónica de FM tenga ruido. Si se sintoniza otra estación en el modo MONO, la unidad ingresa automáticamente en el modo automático.

Tasto STEREO AUTO/MONO (utilizzando l'unità di telecomando)

Modo auto:
Impostare questa posizione quando si ascolta o si registra una trasmissione FM stereo. L'indicatore del modo STEREO si accende quando la trasmissione ricevuta è in stereo.

MONO:
Impostare questa posizione quando la ricezione FM è disturbata.
Quando un'altra stazione viene sintonizzata nel modo MONO, l'unità entra automaticamente nel modo automatico.

Seek tuning

Press the UP or DOWN button for one second or more. The unit enters the seek tuning mode to tune in the nearest station automatically, so the broadcast can be heard.
In AM operation, the frequency moves continuously from the MW to the LW band and vice versa.

Búsqueda de sintonía

Presione el botón UP o DOWN durante un segundo o más. La unidad ingresa en el modo de búsqueda de sintonía sintonizando automáticamente la estación más próxima y por eso se escucha la radiodifusión.
En la operación de AM la frecuencia se mueve continuamente desde la banda de OM a la de OL y viceversa.

Sintonizzazione con ricerca

Premere il tasto UP o DOWN per un secondo o più. L'unità entra nel modo di sintonizzazione con ricerca per sintonizzarsi automaticamente sulla stazione più vicina in modo da poter udire la trasmissione.
Durante il funzionamento in AM, la frequenza passa continuamente dalla banda MW a quella LW e viceversa.

Manual tuning

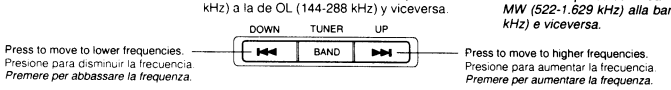
Each time the UP or DOWN button is pressed, the unit steps through the current frequency band. Tuning is done in steps of 50 kHz for FM and 9 kHz for AM (MW/LW).
In AM operation, the tuned frequency moves continuously from the MW (522-1,629 kHz) to the LW (144-288 kHz) band and vice versa.

Sintonización manual

Cada vez que se presiona el botón UP o DOWN, la unidad pasa a través de la banda de frecuencia actual. La sintonización es efectuada en pasos de 50 kHz para FM y de 9 kHz para AM (OM/OL).
En AM, la frecuencia sintonizada se mueve continuamente de la banda de OM (522-1.629 kHz) a la de OL (144-288 kHz) y viceversa.

Sintonizzazione manuale

Ogni volta che il tasto UP o DOWN viene premuto, la frequenza cambia all'interno della banda corrente. La sintonizzazione viene eseguita in passi da 50 kHz in FM e 9 kHz in AM (MW/LW).
Durante il funzionamento in AM, la frequenza sintonizzata passa continuamente dalla banda MW (522-1.629 kHz) alla banda LW (144-288 kHz) e viceversa.



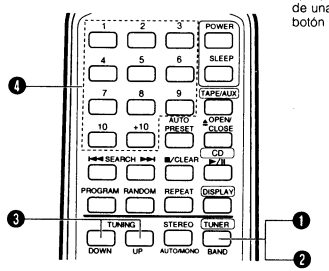
Notes:
- When seek tuning to the required station is not possible because the broadcast signal is too weak, press the UP or DOWN button momentarily to perform manual tuning.
- When the power is set to STANDBY, or another mode (CD or TAPE/AUX) is selected, the last tuned frequency is stored in memory. When the power is switched on again and TUNER/BAND button is pressed, the same station will be tuned to.

Auto preset tuning (using the remote control unit)

This function scans the current band, detecting frequencies used to broadcast signals, and stores the first 15 frequencies in memory automatically.
- Press the AUTO PRESET button for more than 2 seconds. The frequencies of stations broadcasting signals can be stored in memory automatically in the order of increasing frequency. (15 stations in each band.)

Presetting stations (using the remote control unit)

15 stations in each band can be preset as follows:
- Example: (Presetting an FM station broadcasting on 103.5 MHz to preset button "15")



❶ Press the TUNER/BAND button.
❷ Select the FM band using the TUNER/BAND button.
❸ Tune to the required station.
❹ Press preset button "+10", then "5" for more than 2 sec.
(When "15" blinks in the preset station display, the station has been stored.)

- Repeat the above procedure for each of the other stations, using a different preset button each time.
- Repeat the above procedure for the other band.

- **To change preset stations**
Perform step ❹ above after tuning to the required station.

Notes:
- The previous stored station is erased when a new station is stored, because the new station's frequency replaces the previous frequency in memory.
- When listening to an AM (MW/LW) broadcast, noise may be heard if the remote control unit is used.

Notas:
- Cuando la sintonización por búsqueda de la estación deseada no es posible debido a que la señal de radiodifusión es demasiado débil, presione el botón UP o DOWN por un momento para realizar la sintonización manual.
- Cuando la alimentación está conectada en STANBY, o cuando selecciona otro modo (CD o TAPE/AUX), la última frecuencia sintonizada es almacenada en memoria. Cuando conecta la alimentación otra vez y presiona el botón TUNER/BAND, la unidad sintonizará la misma estación.

Presintonización automática (utilizando la unidad de control remoto)

Esta función busca la banda actual, detectando frecuencias usadas para señales de radiodifusión y almacena automáticamente en memoria las primeras 15 frecuencias.
- Presione el botón AUTO PRESET durante más de 2 segundos. Las frecuencias de las emisoras emitiendo señales de radiodifusión pueden ser almacenadas en memoria automáticamente en orden de frecuencia creciente (15 estaciones en cada banda).

Presintonización de estaciones (utilizando la unidad de control remoto)

Es posible presintonizar 15 estaciones en cada banda de la siguiente forma:
- Ejemplo: (Presintonización de la radioemisión de una estación de FM en 103,5 MHz en el botón "15" de presintonización)

❶ Presione el botón TUNER/BAND.
❷ Seleccione la banda de FM utilizando el botón TUNER/BAND.
❸ Sintonice la estación deseada.
❹ Presione el botón "+10" de presintonización y luego el "5" durante más de 2 segundos. (Cuando el "15" parpadea en la indicación de estación presintonizada, ésta ha sido registrada).

- Repita el procedimiento de arriba para cada una de las otras estaciones, utilizando un botón de presintonización diferente para cada estación.
- Repita el procedimiento de arriba para la otra banda.

- **Cambio de estaciones presintonizadas**
Ejecute el paso ❹ de arriba después de sintonizar la estación deseada.

Notas:
- La estación previamente almacenada se borra cuando se almacena otra estación, ya que la frecuencia de la nueva estación reemplaza la frecuencia anterior en memoria.
- Cuando escucha una radiodifusión de AM (OM/OL), es posible que se escuche ruido si se utiliza la unidad de control remoto.

Note:
- *Quando la sintonizzazione con ricerca della stazione desiderata non è possibile poiché il segnale della trasmissione è troppo debole, premere momentaneamente il tasto UP o il tasto DOWN per eseguire la sintonizzazione manuale.*
- *Quando l'alimentazione è impostata su STANDBY oppure si seleziona un altro modo (CD o TAPE/AUX), l'ultima frequenza sintonizzata viene memorizzata. Quando l'alimentazione viene riattivata e si preme il tasto TUNER/BAND, tale frequenza viene sintonizzata.*

Sintonizzazione con preselezione automatica (utilizzando l'unità di telecomando)

Questa funzione esegue la ricerca nella banda utilizzata rilevando le frequenze utilizzate per le trasmissioni e quindi memorizza automaticamente le prime 15 frequenze.
- *Premere il tasto AUTO PRESET per più di 2 secondi. Le frequenza delle stazioni che trasmettono vengono memorizzate automaticamente in ordine crescente. (15 stazioni per ciascuna banda).*

Preselezione delle stazioni (utilizzando l'unità di telecomando)

15 stazioni per ciascuna banda possono essere preselezionate nel modo seguente:
- *Esempio: (Per preselezionare una stazione FM che trasmette sui 103,5 MHz nel tasto di preselezione numero "15")*

❶ *Premere il tasto TUNER/BAND.*
❷ *Selezionare la banda FM utilizzando il tasto TUNER/BAND.*
❸ *Sintonizzare la stazione desiderata.*
❹ *Premere il tasto di preselezione "+10" e quindi quello "5" per oltre 2 secondi. (Quando la cifra "15" lampeggia sul display di preselezione, la stazione è preselezionata).*

- *Ripetere la procedura sopraindicata per ciascuna stazione desiderata utilizzando ogni volta un tasto di preselezione diverso.*
- *Ripetere la procedura sopradescritta per l'altra banda.*

- **Per cambiare le stazioni preselezionate**
Eseguire la fase ❹ dopo aver sintonizzato la nuova stazione desiderata.

Note:
- *Quando si memorizza una nuova stazione, la stazione memorizzata in precedenza viene cancellata in quanto la frequenza della nuova stazione sostituisce quella memorizzata in precedenza.*
- *Quando si ascolta una trasmissione AM (MW/LW) si possono udire dei disturbi se viene utilizzato il telecomando.*

- All preset stations will be erased when the power cord is disconnected or a power failure occurs for more than 24 hours. In such cases, store the stations again.

Preset tuning

- The stations must be preset before this operation can be performed.

(Using the main unit)
① Press the TUNER/BAND button.
② Select the band using the TUNER/BAND button.
③ Press the PRESET TUNING button to select the required preset station.

(Using the remote control unit)
① Press the TUNER/BAND button.
② Select the band using the TUNER/BAND button.
③ Press the required preset station buttons (No. 1 – No. 10 and +10).
- The preset station number and frequency corresponding to the button pressed are shown.

Using the antennas
FM: Connect the provided FM feeder antenna (see page 6).
AM (MW/LW): Adjust the position of AM (MW/LW) loop antenna.

- Todas las estaciones presintonizadas se borran cuando se desconecta el cordón de alimentación u ocurre un corte de energía de más de 24 horas. En tales casos almacene las estaciones otra vez.

Presintonización

- Las estaciones deben ser presintonizadas antes de que se pueda ejecutar esta operación.

(Utilizando la unidad principal)
① Presione el botón TUNER/BAND.
② Seleccione la banda utilizando el botón TUNER/BAND.
③ Presione el botón PRESET TUNING para seleccionar la estación presintonizada deseada.

(Utilizando la unidad de control remoto)
① Presione el botón TUNER/BAND.
② Seleccione la banda utilizando el botón TUNER/BAND.
③ Presione los botones (No. 1 - No. 10 y +10) de la estación presintonizada deseada.
- En el visor aparecen el número de estación presintonizada y la frecuencia correspondiente al botón presionado.

Utilización de antenas
FM: Conecte la bajada de antena FM suministrada (ver página 6).
AM (OM/OL): Ajuste la posición de la antena de cuadro de AM (OM/OL).

- *Tutte le stazioni preselezionate vengono cancellate se il cavo di alimentazione viene cancellato oppure se si verifica un'interruzione di corrente per più di 24 ore. In tali casi eseguire nuovamente la memorizzazione delle stazioni.*

Sintonizzazione stazioni preselezionate

- *Le stazioni devono essere preselezionate prima di poter eseguire questa operazione.*

(Uso dell'unità principale)
① *Premere il tasto TUNER/BAND.*
② *Scegliere la banda di frequenza col tasto TUNER/BAND.*
③ *Premere il tasto PRESET TUNING per scegliere la stazione preselezionata desiderata.*

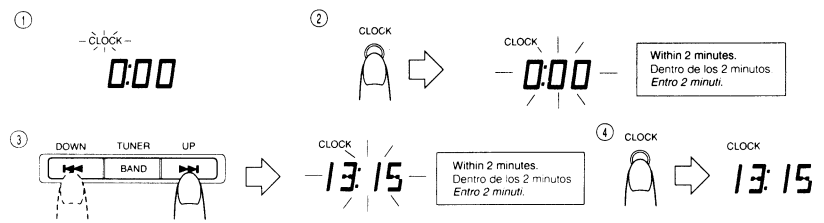
(Utilizzando l'unità di telecomando)
① *Premere il tasto TUNER/BAND.*
② *Selezionare la banda utilizzando il tasto TUNER/BAND.*
③ *Premere il tasto della stazione preselezionata desiderata (No. 1 – No. 10, +10).*
- *Il numero della stazione preselezionata e la frequenza corrispondenti al tasto premuto vengono visualizzati.*

Uso delle antenne
FM: *Collegare l'antenna FM a piattina in dotazione (vedi pag. 6).*
AM (MW/LW): *Regolare la posizione dell'antenna AM (MW/LW) ad anello.*

CLOCK ADJUSTMENT

Setting the current time (when this unit is used for the first time)

(Example: To set the clock to 13:15.)



① Connect the AC power cord; "CLOCK" will blink in the display.
② Press the CLOCK button for 2 sec. or more; "0:00" will blink in the display.
③ Set to 13:15 by pressing the UP/DOWN buttons.
(When the button is kept pressed, the minute/hour indication changes continuously.)
④ Press the CLOCK button; the time will light in the display.

AJUSTE DEL RELOJ

Ajuste de la hora actual (cuando se usa la unidad por primera vez)

(Ejemplo: Para ajustar el reloj a las 13:15.)

① Conecte el cordón de CA; "CLOCK" parpadeará en la visor.
② Presione el botón CLOCK durante 2 seg. o más; "0:00" parpadeará en el visor.
③ Ajuste a las 13:15 presionando los botones UP/DOWN.
(Si se mantiene el botón presionado, la indicación de la hora/minutos cambia continuamente).
④ Presione el botón CLOCK; la hora se iluminará en el visor.

REGOLAZIONE OROLOGIO

Impostazione dell'orario corrente (quando l'unità viene usata per la prima volta)

(Esempio: Per regolare l'orologio sulle 13:15.)

① *Collegare il cavo di alimentazione. L'indicazione "CLOCK" lampeggia sul display.*
② *Premere il tasto CLOCK per 2 secondi o più; l'indicazione "0:00" lampeggia sul display.*
③ *Impostare sulle 13:15 premendo i tasti UP/DOWN.*
(Quando il tasto viene tenuto premuto, l'indicazione dei minuti/ore cambia continuamente).
④ *Premere il tasto CLOCK; l'orario si illumina sul display.*

- To set to the nearest second...
  Press the CLOCK button when you hear the time signal from a TV or radio.

- **To confirm the current time (when the power is ON.)**
  Press the CLOCK button. When the button is pressed again, the display shows the previously engaged mode.

Notes:
- Before performing timer playback, it is necessary to set the current time.
- It is recommended to set the current time with the POWER button set to STANDBY so that the current display mode is maintained.
- When the power cord is plugged in again after being disconnected or power is restored after a power failure, "CLOCK" will blink in the display. Set the current time again.

- Para fijar los segundos en forma más exacta...
  Presione el botón CLOCK al escuchar la señal horaria de la televisión o la radio.

- **Para confirmar la hora actual (cuando la alimentación está conectada ON.)**
  Presione el botón CLOCK. Si lo presiona otra vez, la indicación muestra el modo previamente activado.

Notas:
- Antes de efectuar la reproducción por temporizador, es necesario ajustar la hora actual.
- Se recomienda ajustar la hora actual con el botón POWER colocado en STANDBY para conservar el modo de indicación actual.
- Cuando se conecta el cordón de alimentación después de haberlo desconectado o cuando vuelve la energía después de un corte de la misma, "CLOCK" parpadeará en el visor. Ajuste otra vez la hora actual.

- *Per impostare l'ora esatta...*
  Premere il tasto CLOCK in corrispondenza di un segnale orario della televisione o della radio.

- **Per controllare l'orario corrente (con l'alimentazione attivata.)**
  Premere il tasto CLOCK. Quando il tasto viene premuto nuovamente, il display indica il modo precedentemente attivato.

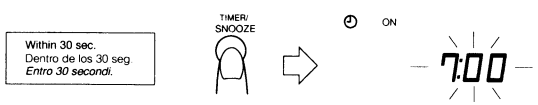
Nota:
- *Prima di eseguire la riproduzione col timer è necessario impostare l'ora esatta.*
- *Si raccomanda di impostare l'ora esatta col tasto POWER su STANDBY in modo da mantenere il modo di visualizzazione corrente.*
- *Quando il cavo di alimentazione viene ricollegato dopo essere stato scollegato oppure quando l'alimentazione viene riattivata dopo un'interruzione di corrente, l'indicazione "CLOCK" lampeggia sul display. Impostare nuovamente l'ora esatta.*

TIMER OPERATIONS | OPERACIONES POR TEMPORIZADOR | FUNZIONAMENTO COL TIMER

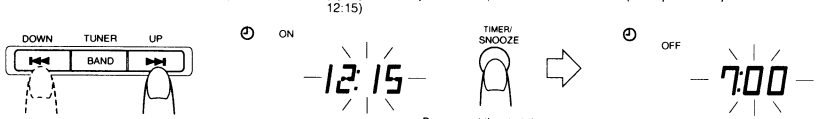
Setting the timer

- The current time must be set before the timer can be used.

❶ Press the TIMER/SNOOZE button.

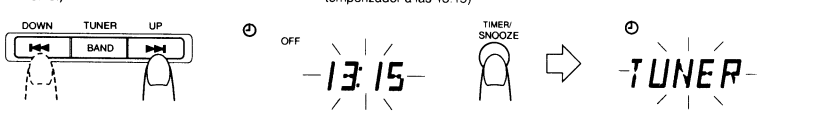


❷ Set the start time.
(Example: To set the timer to 12:15.)



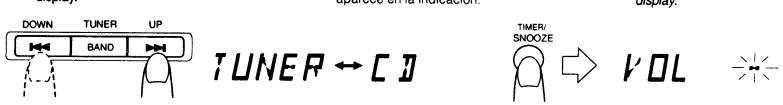
- Press to set the start time.
- Presiónelo para establecer la hora de activación.
- *Premerlo per impostare l'ora di inizio.*

❸ Set the stop time.
(Example: To set the timer stop time to 13:15.)



- Press to set the timer stop time.
- Presiónelo para establecer la hora de desconexión del temporizador.
- *Premerlo per impostare l'ora di spegnimento.*

❹ Select the TIMER mode.
- **The selected timer mode is shown in the display.**



Ajuste del temporizador

- Antes de utilizar el temporizador es necesario ajustar la hora actual.

❶ Presione el botón TIMER/SNOOZE.

❷ Ajuste el tiempo de inicio.
(Ejemplo: Para ajustar el temporizador a las 12:15)

❸ Ajuste la hora de parada.
(Ejemplo: Para ajustar la hora de parada del temporizador a las 13:15)

❹ Seleccione el modo TIMER.
- El modo de temporizador seleccionado aparece en la indicación.

Impostazione del timer

- *Prima di poter utilizzare il timer deve essere impostata l'ora esatta.*

❶ *Premere il tasto TIMER/SNOOZE.*

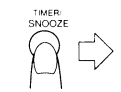
❷ *Impostare l'orario di avvio.*
(Esempio: Per impostare il timer sulle 12:15).

❸ *Impostare l'orario di arresto.*
(Esempio: Per impostare il timer sulle 13:15).

❹ *Selezionare il modo del timer (TIMER).*
- *Il modo del timer scelto viene indicato sul display.*

❺ Set the volume.

DOWN
TUNER
UP
BAND
VOL
0 → VOL
1 → VOL 50
When the UP button is used to select the volume.
Cuando se usa el botón UP para seleccionar el nivel de volumen
Se il tasto UP viene usato per scegliere il volume.
VOL 1
This shows when volume level 1 is selected.
Esto se visualizará cuando se seleccione el nivel de volumen 1
Indica se il livello di volume 1 è stato scelto.



- The unit enters the previously engaged mode and timer setting has been completed.
- La unidad ingresa en el modo previamente activado y el ajuste del temporizador queda completado.
- *L'unità entra nel modo precedentemente attivato e l'impostazione del timer è così terminata.*

- The selected volume is set.
- Se fija el volumen deseado.
- *Viene scelto il livello di volume.*

- When the volume setting is set to "VOL -" (volume level is not specified), the timer playback volume is at the level used before setting the timer.

- **To confirm the timer setting**
1. Each time the TIMER/SNOOZE button is pressed, the timer setting can be confirmed.
2. When the previously engaged mode is displayed, timer setting has been completed.

Note:
- When the timer is set incorrectly or the correct mode is not selected, perform "Setting the timer" from the beginning.

❺ Ajuste el volumen.

- Si se ajusta el volumen en "VOL -" (no se especifica el nivel del volumen), el volumen de la reproducción por temporizador permanece al nivel utilizado antes de ajustar el temporizador.

- **Comprobación del ajuste del temporizador**
1. Cada vez que presiona el botón TIMER/SNOOZE, es posible confirmar el ajuste del temporizador.
2. Cuando se activa el modo anterior, el ajuste del temporizador queda completado.

Nota:
- Cuando se ajusta el temporizador incorrectamente o no se selecciona el modo correcto, ejecute el "Ajuste del temporizador", desde el principio.

❺ *Regolare del volume.*

- *Se il volume viene regolato su "VOL -" (volume non specificato), il volume di riproduzione via timer viene portato automaticamente al livello di prima dell'attivazione del timer stesso.*

- **Per controllare l'impostazione del timer**
1. *Ogni volta che il tasto TIMER/SNOOZE viene premuto, è possibile controllare l'impostazione del timer.*
2. *Quando il modo precedentemente attivato viene visualizzato, l'impostazione del timer è terminata.*

Note:
- *Quando il timer viene impostato in modo scorretto oppure quando il modo corretto non viene selezionato, eseguire quanto descritto nella sezione "Impostazione del timer" dall'inizio.*

Timer playback

- Timer playback of CDs or broadcasts is possible.

Operations

Reproducción por temporizador

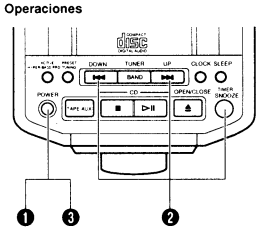
- La reproducción por temporizador de CD o de radiodifusiones es posible.

Operaciones

Riproduzione col timer

- *La riproduzione col timer di CD o di trasmissioni radiofoniche è possibile.*

Operazioni



❶ Set the POWER button to ON.
❷ Set the timer. (Refer to "Setting the timer" on page 23.)

❶ Coloque el botón POWER en ON.
❷ Ajuste el temporizador. (Refiérase a "Ajuste del temporizador" en la página 23.)

❶ *Impostare il tasto POWER su ON.*
❷ *Impostare il timer. (Vedi "Impostazione del timer" a pag. 23).*

Source sound Fuente de sonido *Fonte sonora*	Timer mode Modo de temporizador *Modo di funzionamento*	Operations Operaciones *Operazioni*
CD play Reproducción de CD *Riproduzione CD*	CD CD *CD*	Load a CD. Coloque un CD. *Inserire un CD.*
Broadcast Radioemisión *Trasmissione radio*	TUNER TUNER *TUNER*	Tune to the required station. Sintonice la estación deseada. *Mettere in sintonia la stazione desiderata.*

❸ Switch the power off.

❸ Desconecte la alimentación.

❸ *Spegnere il sistema.*

- Timer playback will start at the timer start time and the power will be switched off at the timer stop time.
  The unit remains in the same timer mode even after the power is switched off. The same timer function will repeat at the same time on the following day.
- When the power is switched on, it is possible to fade in the sound from volume level 0 (zero) to the preset volume.

- **To cancel timer operation**
  Press the TIMER/SNOOZE button so that the timer mode indicator (⏲) goes out.

Notes:
- When the volume setting is set to "VOL -" (volume level is not specified), the timer playback volume is set to the level used before setting the timer.
- To stop during timer playback, press the POWER button to switch the unit off.

- **To get an extra 5 minutes of sleep....**
  When timer playback starts, press the TIMER/SNOOZE button. The power is switched off and timer playback restarts after 5 minutes. (While the snooze mode is activated, the snooze indicator lights.)

Note:
While timer playback is engaged, pressing the TIMER/SNOOZE button within 5 minutes to the timer stop time switches the power off but timer playback does not restart.
(Example: When the timer stop time is set to 7:30, those 5 minutes are from 7:25 to 7:30.)

Sleep timer operations

A. Use this when you want to fall asleep while listening to a broadcast or CD.

① Set to the required source and tune (broadcast) or play back CD.
② Press the SLEEP button to set the sleep time.

SLEEP is shown in the display.
Se visualiza SLEEP en el display.
L'indicazione SLEEP viene visualizzata sul display.

Visualización del modo de fuente (Cancelación del modo de desconexión)
Visualizzazione fonte (Abbandono del modo di spegnimento a tempo)

- Sleep time settings of 30, 60, 90 or 120 minutes can be set. When you release the SLEEP button, the source is displayed after 5 sec.
- The sleep timer operation will start and the power will be switched off after the specified time.

- La reproducción por temporizador se iniciará a la hora de activación del temporizador y la alimentación se desconecta a la hora de desactivación del temporizador.
  La unidad permanece en el mismo modo de temporizador aun después de desconectar la alimentación. La misma función de temporización se repetirá a la misma hora el día siguiente.
- Cuando se conecta la alimentación es posible hacer que el sonido aumente gradualmente desde el volumen 0 (cero) al volumen actual.

- **Cancelación de la operación por temporizador**
  Presione el botón TIMER/SNOOZE para que se apague la indicación (⏲).

Notas:
- Cuando se ajusta el volumen en "VOL -" (el nivel de volumen no está especificado), el volumen de reproducción por temporizador permanece en el nivel usado antes del ajuste del temporizador.
- Para parar durante la reproducción por temporizador, presione el botón POWER para desconectar la unidad.

- **Para dormir 5 minutos más....**
  Cuando se activa la reproducción por temporizador, presione el botón TIMER/SNOOZE. La alimentación se desconecta y la reproducción por temporizador se inicia 5 minutos después. (Mientras el modo de despertador está activado, el indicador despertador está encendido).

Nota
Mientras la reproducción por temporizador está activada, el presionar el botón TIMER/SNOOZE dentro de los 5 minutos restantes para la desactivación del temporizador, desconecta la alimentación, pero la reproducción por temporizador no se reinicia.
(Ejemplo: Cuando se ajusta la hora de desconexión del temporizador en 7:30, esos 5 minutos van de las 7:25 a las 7:30).

Operaciones del temporizador de desconexión

A. Use este método cuando desee dormir mientras escucha un programa de radio o un CD.

① Ubique la fuente deseada y sintonice (radiodifusión) o reproduzca el CD.
② Presione el botón SLEEP para ajustar la hora a la que desea despertarse.

- El temporizador despertador puede ser ajustado en 30, 60, 90 o 120 minutos. Cuando usted suelta el botón SLEEP, la fuente es indicada durante 5 seg.

- Después de transcurrido el tiempo especificado se activa el temporizador de desconexión y la alimentación es desconectada.

- *La riproduzione col timer inizia all'orario di avvio del timer mentre l'alimentazione viene disattivata all'orario di arresto.*
  L'unità rimane nello stesso modo del timer anche dopo che l'alimentazione viene disattivata. La stessa funzione del timer viene ripetuta alla stessa ora il giorno seguente.
- *Quando l'alimentazione viene iniziata, è possibile eseguire un'apertura in dissolvenza dal livello di volume 0 (zero) al livello impostato.*

- **Per cancellare il funzionamento col timer**
  Premere il tasto TIMER/SNOOZE in modo che l'indicatore del modo del timer (⏲) si spenga.

Note:
- *Quando l'impostazione del volume è "VOL -" (il livello del volume non è stato specificato), il volume della riproduzione col timer viene impostato come prima dell'impostazione del timer.*
- *Per interrompere il funzionamento durante la riproduzione col timer, premere l'interruttore POWER per interrompere l'alimentazione.*

- **Per dormire altri 5 minuti....**
  Quando la riproduzione col timer inizia, premere il tasto TIMER/SNOOZE. L'alimentazione viene disattivata e la riproduzione col timer riprende dopo 5 minuti. (Quando questo modo è attivato, l'indicatore corrispondente si illumina).

Nota:
Quando la riproduzione col timer è attivata, la pressione del tasto TIMER/SNOOZE entro 5 minuti dall'orario di spegnimento del timer causa la disattivazione dell'alimentazione ma la riproduzione col timer non riprende.
(Esempio: Quando l'orario di spegnimento del timer è impostato sulle 7:30, tali cinque minuti sono compresi tra le 7:25 e le 7:30).

Operazioni timer spegnimento automatico

A. Eseguire quanto indicato per potersi addormentare mentre si ascolta la radio o un CD.

① *Impostare la fonte desiderata ed eseguire la sintonizzazione (di una trasmissione) o la riproduzione di un CD.*
② *Premere il tasto SLEEP per impostare l'orario di spegnimento.*

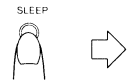
- *E' possibile impostare orari di spegnimento da 30, 60, 90 o 120 minuti. Quando si rilascia il tasto SLEEP, la fonte viene visualizzata dopo 5 secondi.*

- *Lo spegnimento automatico via timer viene eseguito dopo che il tempo impostato è trascorso.*

- **Checking the sleep time**
  When the SLEEP button is pressed, the remaining sleep time is displayed. If it is pressed again, a new sleep time can be set.
- **To cancel the sleep timer operation**
  Press the POWER button to switch the power off or press the SLEEP button until the sleep time indicator disappears.

B. To fall asleep while listening to a broadcast or CD and to perform timer playback the following morning

1. Set the timer. (Refer to "Setting the timer" on page 23.)
2. Set to the required source (broadcast or CD).
3. Press the SLEEP button to set the sleep time.



Visualizacion del modo de fuente (Cancelación del modo de desconexión)
Visualizzazione fonte (Abbandono del modo di spegnimento a tempo)

- Any source can be selected for sleep timer operation and timer playback. For example;
  - CD play for sleep timer operation and broadcast reception for timer playback.

However, when broadcast reception is selected for both sleep timer operation and timer playback, the station you heard at night will be tuned to the following morning.

- **Verificación del tiempo para dormir**
  Cuando presiona el botón SLEEP, aparece la indicación del tiempo restante. Si lo presiona otra vez, es posible establecer un nuevo período para dormir.
- **Cancelación del temporizador de desconexión**
  Presione el botón POWER para desconectar la alimentación o presione el botón SLEEP hasta que el indicador del tiempo para dormir desaparezca.

B. Para dormir mientras escucha una radiodifusión o un CD y efectuar la reproducción por temporizador la mañana siguiente

① Ajuste el temporizador. (Refiérase a "Ajuste del temporizador" en la página 23).
② Ajuste la fuente deseada (radiodifusión o CD).
③ Presione el botón SLEEP para ajustar la hora de desconexión del temporizador.

- Es posible seleccionar cualquier fuente para la operación del temporizador despertador y la reproducción por temporizador. Por ejemplo:
  - La reproducción de CD para la operación del temporizador despertador y la recepción de radiodifusión para la reproducción por temporizador.

Sin embargo, cuando selecciona la recepción de una radiodifusión para la operación del temporizador despertador y para la reproducción por temporizador, la radiodifusora que usted escuchó durante la noche será sintonizada la mañana siguiente.

- **Controllo del tempo specificato**
  Quando il tasto SLEEP viene premuto, il tempo rimanente fino allo spegnimento viene visualizzato. Se il tasto viene premuto nuovamente è possibile impostare un nuovo tempo per lo spegnimento automatico via timer.
- **Per cancellare lo spegnimento automatico**
  Premere l'interruttore POWER per spegnere il sistema o premere il tasto SLEEP sino a che l'indicatore dell'ora di spegnimento automatico via timer scompare.

B. Per addormentarsi ascoltando una trasmissione o un CD ed eseguire la riproduzione col timer la mattina seguente

① *Impostare il timer. (Vedere la sezione "Impostazione del timer" a pag. 23).*
② *Impostare la fonte desiderata (trasmissione radio o CD).*
③ *Premere il tasto SLEEP per impostare il tempo per lo spegnimento automatico via timer.*

- *Per le operazioni di spegnmento automatico e di riproduzione col timer è possibile selezionare qualsiasi fonte. Per esempio:*
  - *Riproduzione di un CD per lo spegnimento automatico e ricezione di una trasmissione per la riproduzione col timer.*

Comunque, quando si seleziona la ricezione di una trasmissione radio sia per lo spegnimento automatico che per la riproduzione col timer, la stessa stazione ricevuta la sera verrà sintonizzata la mattina dopo.

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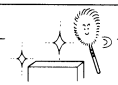
UX – 1000GR B/E/EN/G

MAINTENANCE — MANTENIMIENTO — MANUTENZIONE



Cleaning is important!

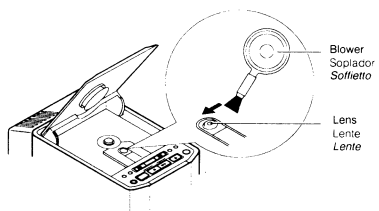
Cleaning the lens
If the lens in the CD pickup is dirty, dropout, etc., could degrade sound.
Open the CD holder and clean the lens as shown.
- Use a blower (available from a camera store) to blow dust off the lens.
- If there are fingerprints, etc. on the lens, gently wipe clean with a cotton swab.

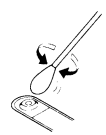
¡La limpieza es importante!

Limpieza de la lente
Si la lente del lector de CD está sucia o manchada, etc., puede degradar el sonido.
Abra el compartimiento del CD y limpie la lente como se muestra.
- Utilice un soplador (disponible en una tienda de cámaras), para quitar el polvo de la lente.
- Si hay huellas digitales, etc. en la lente, limpie suavemente con un isopo de algodon.

La pulizia è estremamente importante!

Pulizia della lente
Se la lente del pickup del lettore CD è sporca, ecc., la qualità del suono potrebbe degradare.
Aprire il vano del CD e pulire la lente come indicato.
- *Utilizzare un soffietto (reperibile in un negozio di materiale fotografico) per soffiare via la polvere dalla lente.*
- *Se sulla lente vi sono impronte digitali, ecc., pulire con gentilezza utilizzando in bastoncino ovattato.*





TROUBLESHOOTING — DETECCION DE PROBLEMAS — DIAGNOSTICA

What appears to be trouble is not always serious. First make sure....

- **Power cannot be turned on.**
  * Is the power cord unplugged?
- **No sound from the speakers.**
  * Are headphones connected?

CD Player Section
- **The CD player does not play.**
  * Is the CD upside down?
  * Is the CD dirty?
- **A certain portion of the CD does not play correctly.**
  * Is the CD scratched?

Tuner Section
- **Reception is noisy.**
  * Try adjusting the antenna.

Timer Section
- **Timer operation does not start.**
  * Is the current time set correctly?
  * Is the timer mode indicator (⏲) displayed?

Remote Control
- **Remote control is impossible.**
  * Are the batteries in the remote control exhausted?
  * Is the remote sensor section exposed to bright light (direct sunlight, etc.)?

Lo que parece ser un problema no siempre es grave. Primero asegúrese....

- **No es posible conectar la alimentación.**
  * ¿Está el cordón de alimentación desenchufado?
- **No sale sonido de los altavoces.**
  * ¿Están los audífonos conectados?

Sección del reproductor de CD
- **El reproductor de CD no funciona.**
  * ¿Está el CD invertido?
  * ¿Está el CD sucio?
- **Cierta porción de un CD no es correctamente reproducida.**
  * ¿Está el CD rayado?

Sección del sintonizador
- **La recepción es ruidosa.**
  * Intente ajustar la antena.

Sección del temporizador
- **La operación por temporizador no se activa.**
  * ¿Está la hora actual correctamente ajustada?
  * ¿Está el indicador (⏲) de modo de temporizador indicado?

Controlador remoto
- **El controlador remoto no funciona.**
  * ¿Están las pilas del controlador remoto agotadas?
  * ¿Está la sección sensor remoto expuesta a una luz brillante (luz solar directa, etc.)?

Quanto sembra essere un problema spesso non è nulla di serio. Accertarsi prima di tutto....

- **L'alimentazione non può essere attivata.**
  * *Il cavo di alimentazione è scollegato?*
- **I diffusori non producono alcun suono.**
  * *Le cuffie sono collegate?*

Sezione lettore CD
- **Il lettore CD non riproduce.**
  * *Il CD è rovescio?*
  * *Il CD è sporco?*
- **Una parte del CD non viene riprodotta correttamente.**
  * *Il CD è graffiato?*

Sezione sintonizzatore
- **La ricezione è disturbata.**
  * *Provare ad orientare l'antenna.*

Sezione timer
- **Il funzionamento col timer non si avvia.**
  * *L'orario corrente è impostato in modo corretto?*
  * *Il modo del timer (⏲) viene visualizzato?*

Telecomando
- **Il funzionamento col telecomando è impossibile.**
  * *Le sue batterie sono scariche?*
  * *Il sensore di telecomando è colpito da luce (solare o artificiale) intensa?*

SPECIFICATIONS — ESPECIFICACIONES — DATI TECNICI

CD player section

Type	:	Compact disc player
Signal detection system	:	Non-contact optical pickup
Number of channels	:	2 channels
Frequency response	:	20 Hz - 20,000 Hz
Signal-to-noise ratio	:	90 dB
Wow & flutter	:	Less than measurable limit

Radio section

Frequency range	:	FM 87.5-108 MHz AM (MW) 522-1,629 kHz (LW) 144-288 kHz
Antennas	:	Loop antenna for AM (MW/LW) External antenna terminal for FM (75 Ω)

Speaker Section (each unit)

Speaker	:	8 cm x 1
Impedance	:	4 Ω
Dimensions	:	120 (W) x 158 (H) x 186 (D) mm
Weight	:	Approx. 1.4 kg

General

Power output	:	30 W (15 W + 15 W) at 4 Ω (Max.) 20 W (10 W + 10 W) at 4 Ω (10% THD)
Input terminals	:	LINE IN (AUX) (300 mV/47 kΩ)
Output terminals	:	PHONES (Output level: 0 - 15 mW/ch, 32 Ω, Matching impedance: 16 Ω - 1 kΩ) SPEAKER (Matching impedance 4 Ω - 16 Ω) LINE OUT (300 mV/47 kΩ) SUBWOOFER OUT OPTICAL DIGITAL OUT
Power requirements	:	AC 230 V, 50 Hz
Power consumption	:	30 W (with POWER SW ON) 3 W (with POWER SW STANDBY)
Dimensions	:	380 (W) x 161 (H) x 258 (D) mm, including knobs
Weight	:	Approx. 5.7 kg
Accessories provided	:	Power cord x 1 Remote control unit (RM-RXU1000GR) x 1 "R6/AA (15F)" batteries x 2 (for the remote control) FM feeder antenna x 1 Loop antenna stand x 1 Speaker cord x 2

Design and specifications are subject to change without notice.

Sección del reproductor de CD

Tipo	:	Reproductor de discos compactos
Sistema de detección de señal	:	Captor óptico sin contacto
Número de canales	:	2 canales
Respuesta de frecuencia	:	20 Hz - 20 000 Hz
Relación señal-ruido	:	90 dB
Fluctuación y tremolación	:	Menor que el límite medible

Sección de la radio

Límites de frecuencia	:	FM 87.5-108 MHz AM (OM) 522-1.629 kHz (OL) 144-288 kHz
Antena	:	Antena de cuadro para AM (OM/OL) Terminal de antena exterior para FM (75 Ω)

Sección de altavoces (cada unidad)

Altavoz	:	8 cm x 1
Impedancia	:	4 Ω
Dimensiones	:	120 (A) x 158 (Alt.) x 186 (P) mm
Peso	:	Aprox. 1,4 kg

Generalidades

Salida de potencia	:	30 W (15 W + 15 W) a 4 Ω (máx.) 20 W (10 W + 10 W) a 4 Ω (10% de distorsión armónica total)
Terminales de entrada	:	LINE IN (AUX) (300 mV/47 kΩ)
Terminales de salida	:	PHONES (Nivel de salida: 0 - 15 mW/can., 32 Ω. Impedancia de adaptación: 16 Ω - 1 kΩ) SPEAKER (Impedancia de adaptación 4 Ω - 16 Ω) LINE OUT (300 mV/47 kΩ) SUBWOOFER OUT OPTICAL DIGITAL OUT
Requisitos de alimentación	:	230 V CA, 50 Hz
Consumo de energía	:	30 W (con POWER en ON) 3 W (con POWER en STANDBY)
Dimensiones	:	380 (A) x 161 (Alt.) x 258 (P) mm, incluyendo las perillas
Peso	:	Aprox. 5,7 kg
Accesorios suministrados	:	Cable de corriente alterna x 1 Unidad de control remoto (RM-RXU1000GR) x 1 Pilas "R6/AA (15F)" x 2 (para el controlador remoto) Antena de alimentación FM x 1 Soporte para la antena de cuadro x 1 Cordón de altavoz x 2

Diseño y especificaciones sujetos a cambio sin aviso.

Sezione lettore CD

Tipo	:	*Lettore di CD*
Sistema rilevamento segnale	:	*Pickup ottico senza contatto*
Numero canali	:	*2 canali*
Risposta frequenza	:	*20 Hz - 20.000 Hz*
Rapporto segnale/rumore	:	*90 dB*
Wow e flutter	:	*Meno del limite misurabile*

Sezione radio

Gamma frequenza	:	*FM 87,5-108 MHz* *AM (MW) 522-1.629 kHz* *(LW) 144-288 kHz*
Antenna	:	*Antenna ad anello per AM (MW/LW)* *Terminale per antenna FM esterna (75 Ω)*

Sezione diffusori (per ciascun diffusore)

Altoparlante	:	*8 cm x 1*
Impedenza	:	*4 Ω*
Dimensioni	:	*120 (L) x 158 (A) x 186 (P) mm*
Peso	:	*Circa 1,4 kg*

Generali

Potenza in uscita	:	*30 W (15 W + 15 W) a 4 Ω (Mass.)* *20 W (10 W + 10 W) a 4 Ω (10% THD)*
Terminali di ingresso	:	*LINE IN (AUX) (300 mV/47 kΩ)*
Terminali in uscita	:	*PHONES (Livello in uscita: 0 - 15 mW/ch, 32 Ω, Impedenza corrispondente: 16 Ω - 1 kΩ)* *SPEAKER (Impedenza corrispondente: 4 Ω - 16 Ω)* *LINE OUT (300 mV/47 kΩ)* *SUBWOOFER OUT* *OPTICAL DIGITAL OUT*
Alimentazione	:	*230 V CA, 50 Hz*
Consumo	:	*30 W (con POWER ON),* *3 W (con POWER STANDBY)*
Dimensioni	:	*380 (L) x 161 (A) x 258 (P) mm, comandi inclusi*
Peso	:	*Circa 5,7 kg*
Accessori in dotazione	:	*Cavo alimentazione x 1* *Unità telecomando (RM-RXU1000GR) x 1* *Batterie "R6/AA (15F)" x 2 (per unità di telecomando)* *Antenna FM a piattina x 1* *Base antenna ad anello x 1* *Cavo diffusori x 2*

Disegno e dati tecnici soggetti a cambiamenti senza preavviso.

JVC
VICTOR COMPANY OF JAPAN, LIMITED

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VNN9291-251C

4. Location of Main Parts

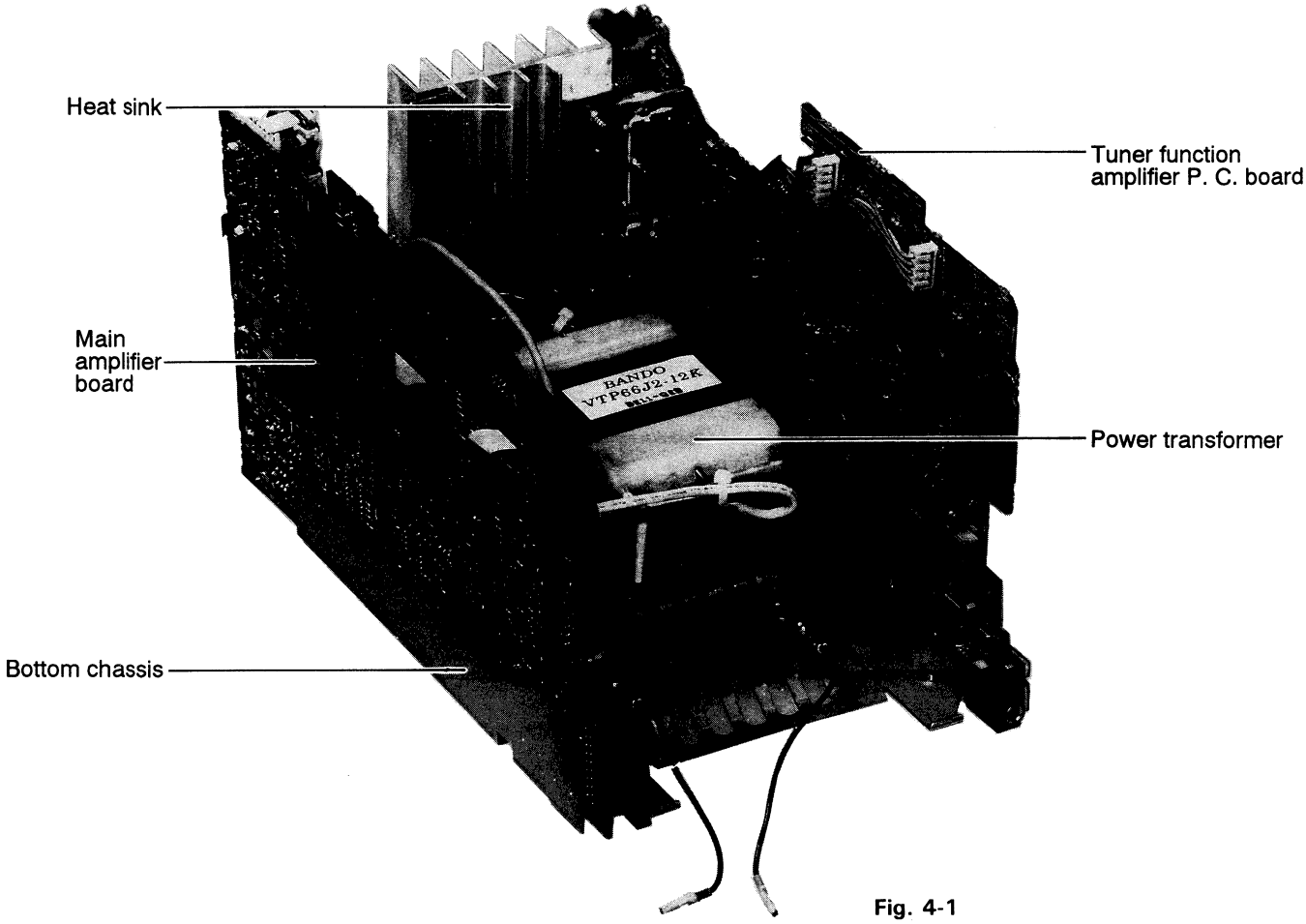


Fig. 4-1

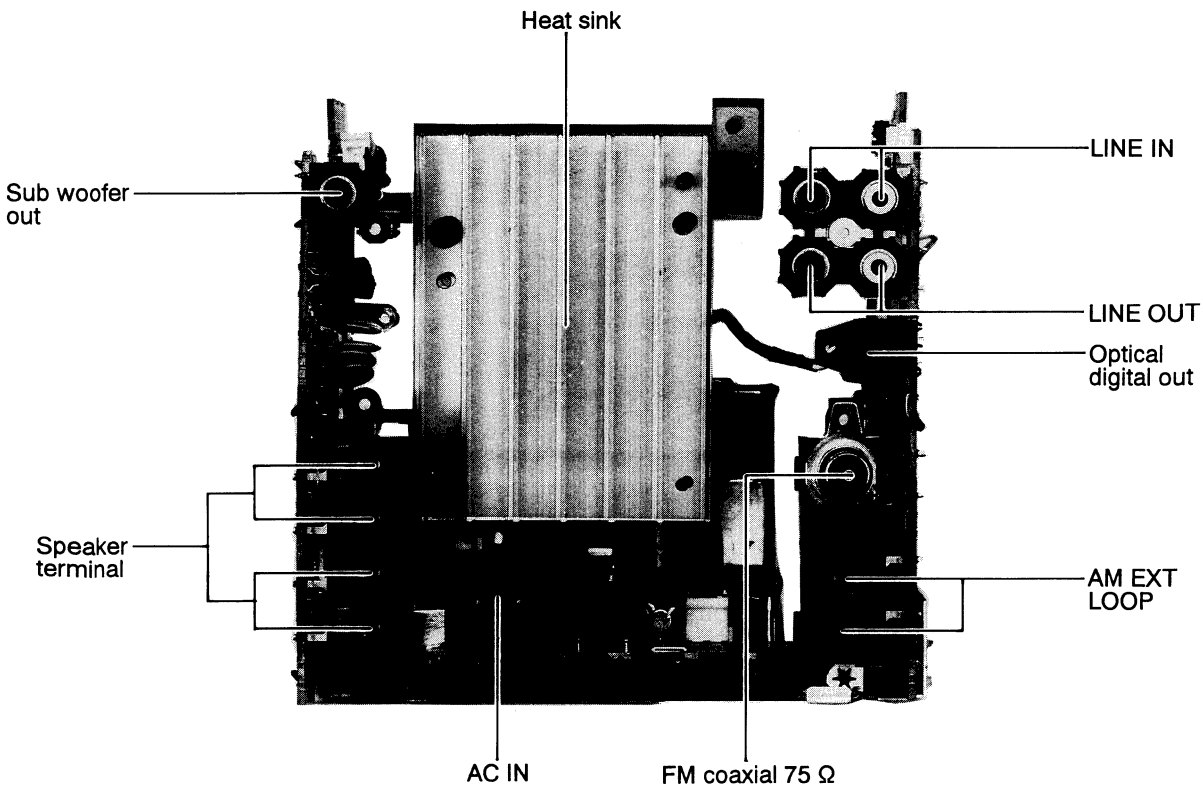


Fig. 4-2

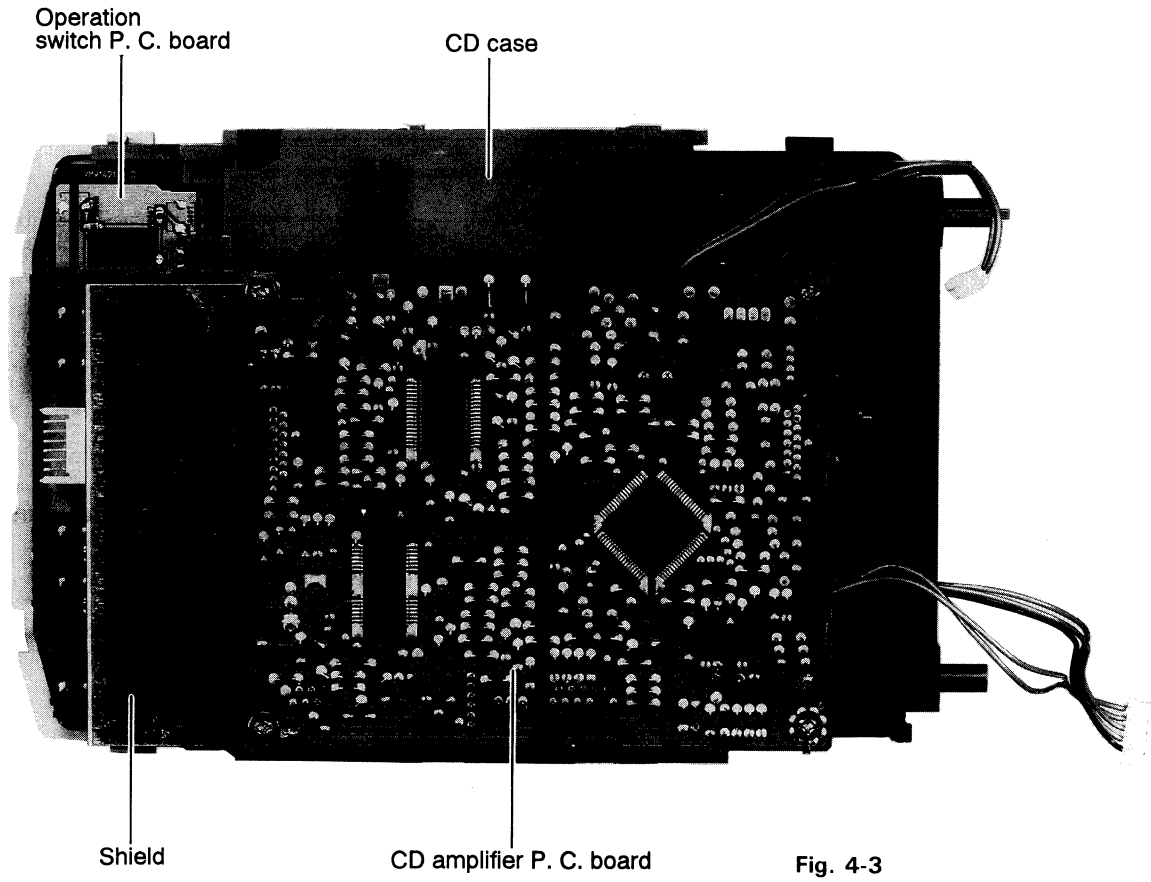

Operation
switch P. C. board
CD case
Shield
CD amplifier P. C. board

Fig. 4-3

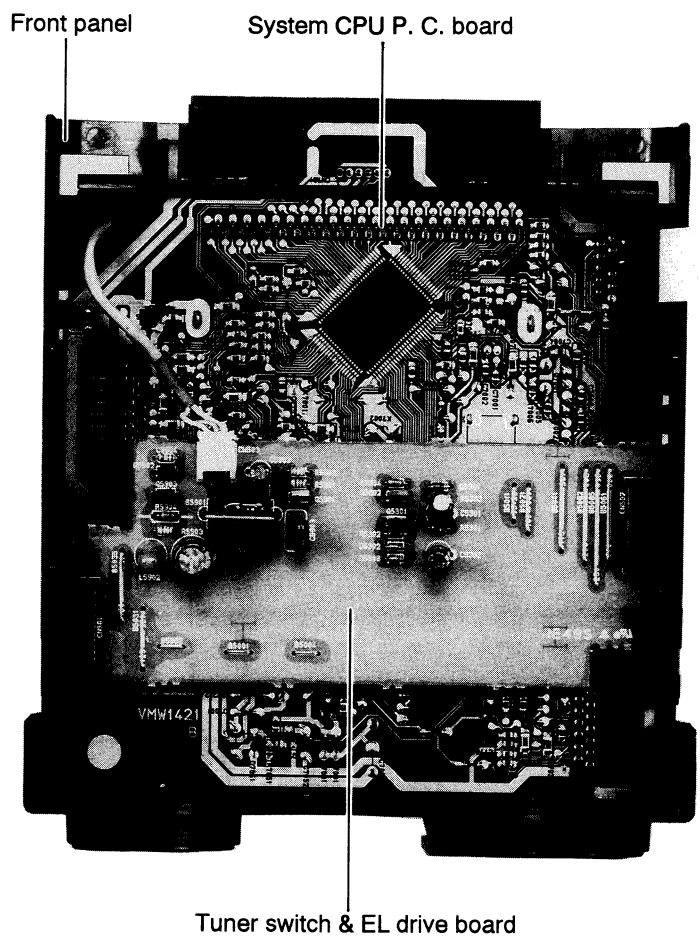

Front panel
System CPU P. C. board
Tuner switch & EL drive board

Fig. 4-4

5. Removal of Main Parts

■ Removing the rear cover and side panel (See Figs. 5-1~5-4)

1. • Remove the six screws ① retaining the rear cover from behind the body.
   • From the bottom face of the body, remove the four screws ② retaining the rear cover.
   • After passing the lock pawls at the speaker terminals through the position in Fig. 5 - 1, remove the rear cover.

2. • Remove the two screws ③ retaining both of the right and left side panels.
   • By moving the side panels (right and left sides) while pulling out the panels toward the rear side, disengage the upper two engagement sections, and dismount the panels while expanding them toward the front side.

※ For assembling (the rear cover and side panels), mount the upper two engagement sections while aligning the same in place at first, and assemble the rear cover and side panels while plugging (the cover and panels) toward the front side.

3. The side fitting should be pulled out upward.

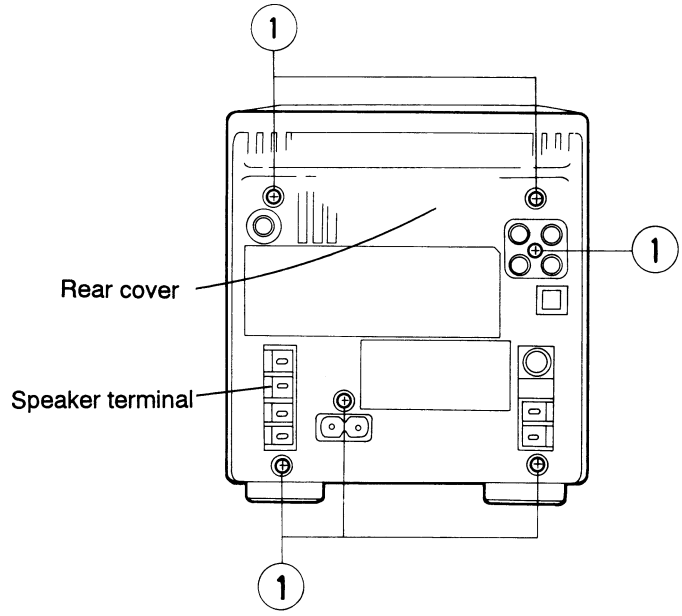


Fig. 5-1

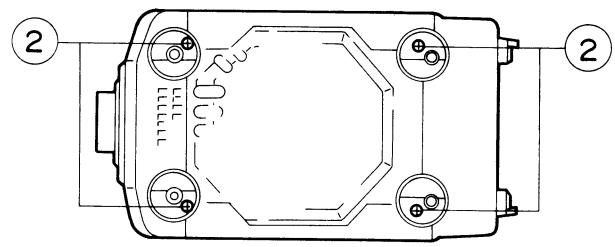


Fig. 5-2

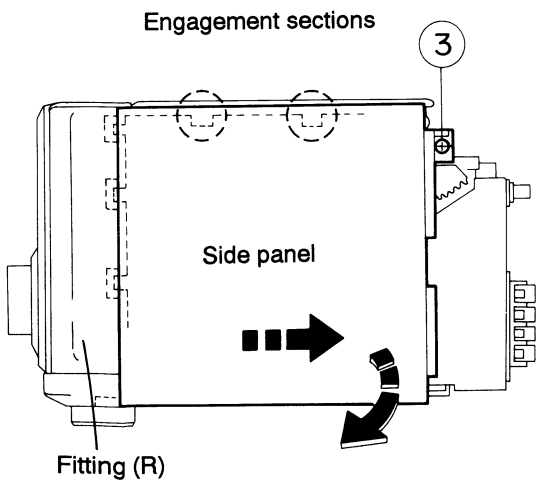


Fig. 5-3

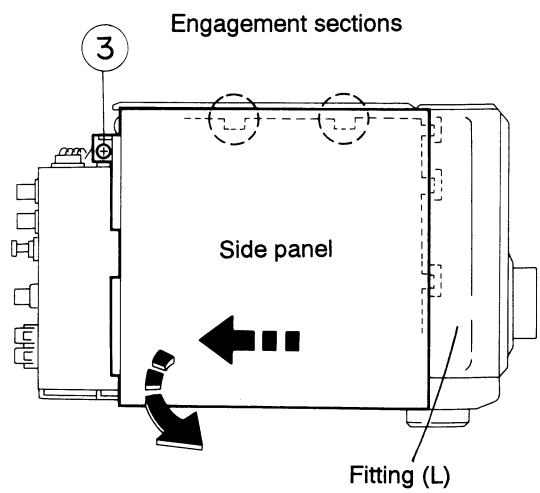


Fig. 5-4

■ Removing the CD player assembly

(See Figs. 5-5~5-7)

1. Remove the rear cover from behind the body.

2. Remove the side panels and fittings (L and R).

3. After removing the three screws ④ from behind the body, dismount the heat sink.

4. • From the side of the body, remove the two screws ⑤ retaining the CD player assembly.
   • Remove the one screw ⑥ retaining the tuner function amplifier P.C. board.
   • Remove the connector wires from the connectors CN643 and CN635 on the tuner function amplifier P.C. board, and then remove the card wires connected to the connector CN631 CD amplifier P.C. board.
   • Remove the connector wire from the connector CN301 on the main board.

5. Remove the CD player while pulling it out toward the rear side.
   Then, the connector CN801 connected to the connector CN781 on the LCD microcomputer P.C. board of the front assembly will be disconnected at the same time.

※ To ensure easy assembly of the CD player assembly, temporarily remove the tuner function amplifier P.C. board, and after mounting the CD player assembly, assemble the tuner function amplifier P.C. board.

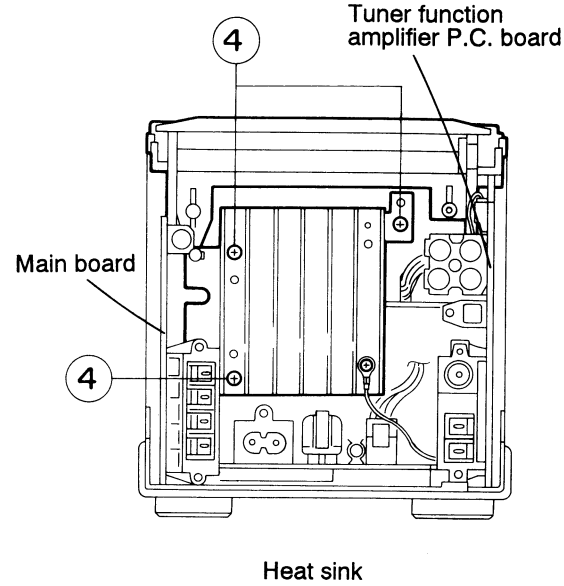


Fig. 5-5

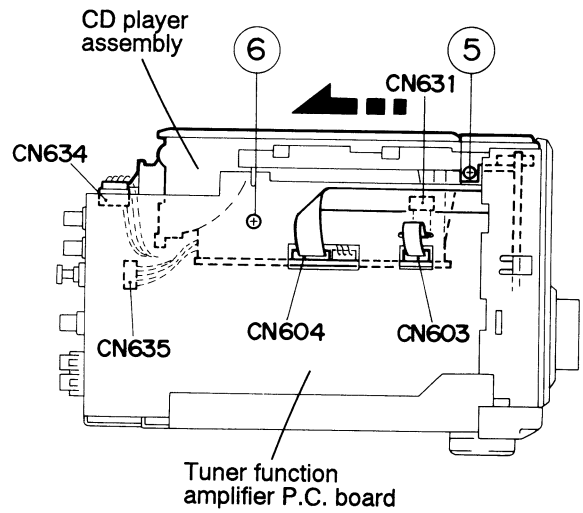


Fig. 5-6

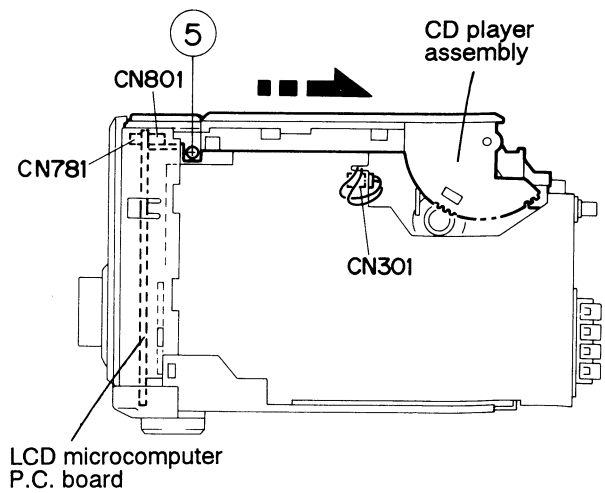


Fig. 5-7

■ Removing the CD player section

(See Figs. 5-8~5-13)

1. Remove the CD player assembly.

2. Removing the CD amplifier assembly
   - Remove the two screws ⑦ retaining the shield.
   - Remove the remaining two screws retaining the CD amplifier P.C. board.
   - Remove the card wire from the connector CN602 on the CD amplifier P.C. board connected to the CD mechanism, and also the card wire from the connector CN601.

3. Removing the CD mechanism assembly
   - Remove the four screws ⑧ retaining the CD motor drive P.C. board.

4. Removing the CD motor drive P.C. board
   - Remove the two screws ⑨ retaining the CD motor drive P.C. board.
   - After disengaging the belt from the motor pulley, remove the CD motor drive P.C. board.

5. Removing the CD door assembly
   - Disengage the two engagement sections on both the right and left sides of the CD door while expanding the sections outward.

6. Removing the operation switch P.C. board
   - Remove the top panel while expanding the right and left side pawls outward.
   - Remove the operation switch P.C. board upward.

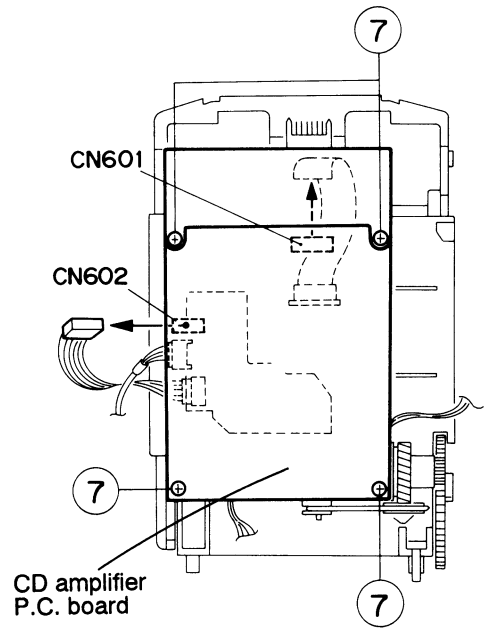


Fig. 5-8

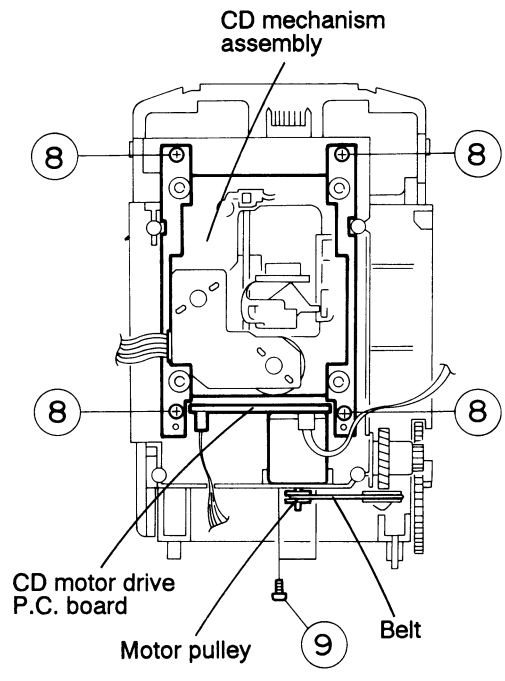


Fig. 5-9

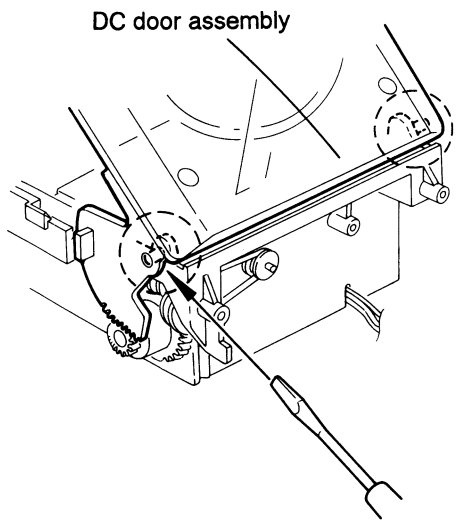


Fig. 5-10

■ Removing the tuner function amplifier P.C. board (See Figs. 5-14~5-16)

- Remove the connectors CN633 and CN632 on the tuner function amplifier P.C. board by pulling them out respectively from the front assembly.
- Remove the card wire from the post pin W6001 on the tuner function amplifier P.C. board.

■ Removing the main board

1. Remove the earth wire from the post pin CN531 on the main board.
2. Disconnect the main connector CN300 on the main board connected to the power supply P.C. board while expanding the main board outward.
3. Disconnect the connectors CN302 and CN303 on the main board toward the rear side by pulling the connectors out from the front assembly.

■ Removing the power supply P.C. board

1. After removing the two screws ⑩, disconnect the connector CN903 on the power supply P.C. board connected to the main board.
2. From the connectors CN902 and CN901, remove the connector wires outgoing from the power supply transformer.
3. While disengaging the power supply P.C. board and holder engagement, remove the power supply P.C. board.

■ Removing the power supply transformer assembly

- Removing the four screws ⑪. From the connectors CN902 and CN901 on the power supply P.C. board, remove the connector wire connected to the power supply P.C. board.

※ For assembly, position the primary side upward, and perform assembly of the respective parts.

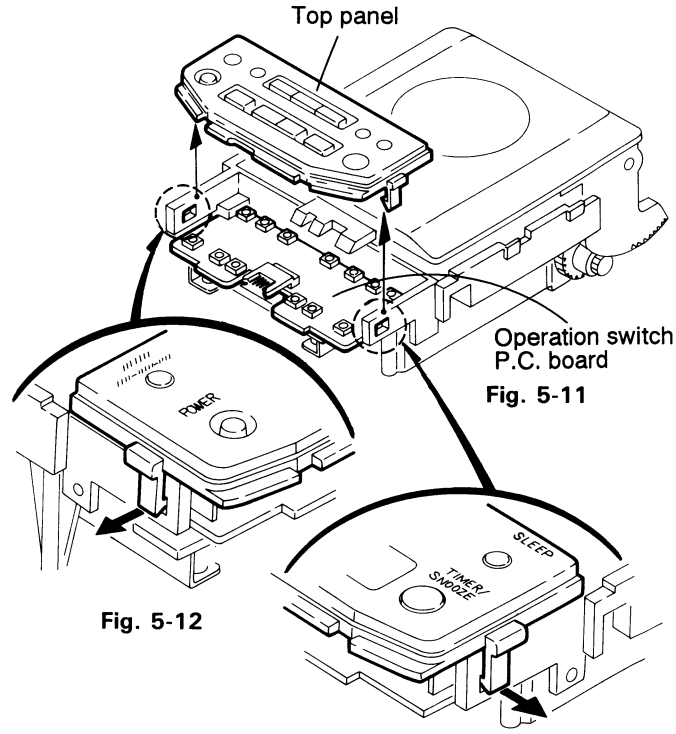


Fig. 5-11

Fig. 5-12

Fig. 5-13

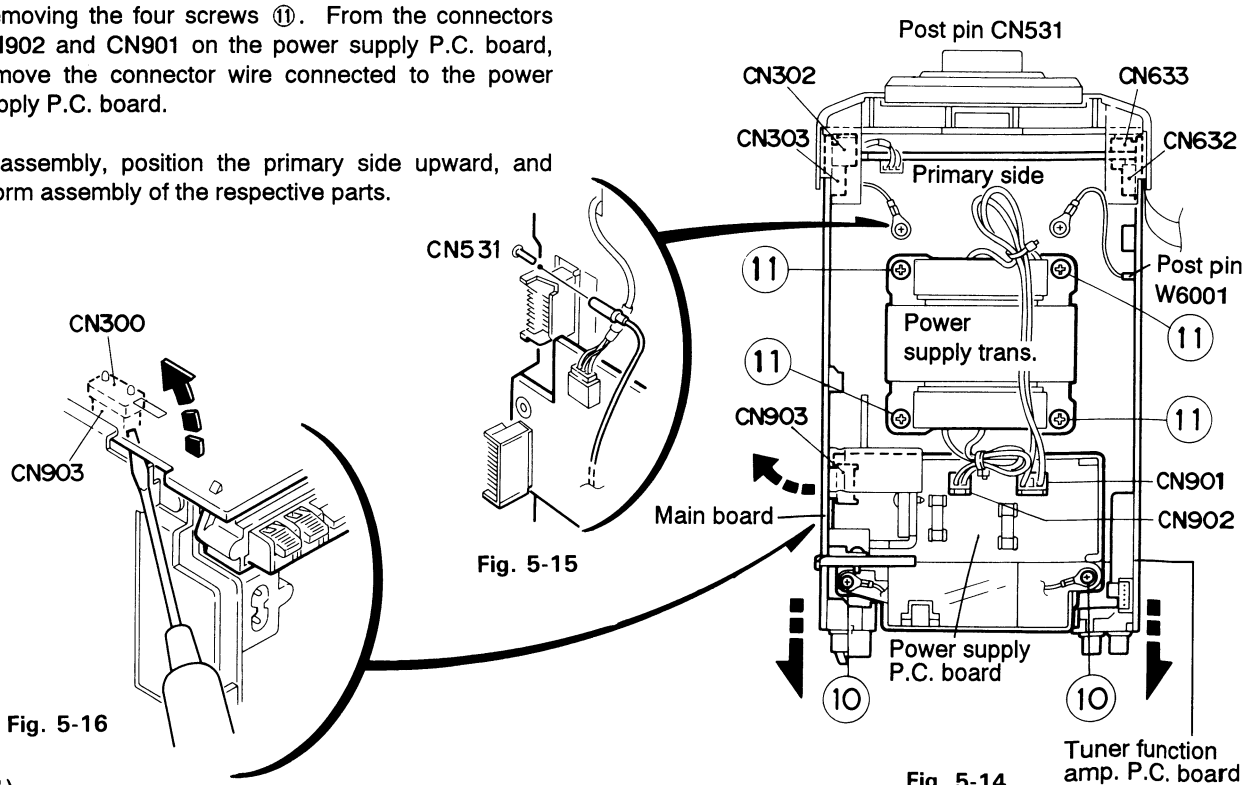


Fig. 5-15

Fig. 5-16

Fig. 5-14

■ Removing the front assembly

(See Figs. 5-17~ 5-19)

1. Remove the rear cover from behind the body.
2. Dismount the CD player assembly.
3. Remove the side panels and fittings (L and R).
4. After removing the knob from the front face of the body and two screws ⑫, dismount the volume escussion.
5. By using a driver and other tool, remove the two pawls provided on both the right and left sides for engaging the front assembly and bottom chassis.
6. After removing the front panel assembly toward the front side, disconnect the connector CN781 on the LCD microcomputer P.C. board from the CD player assembly at the same time.

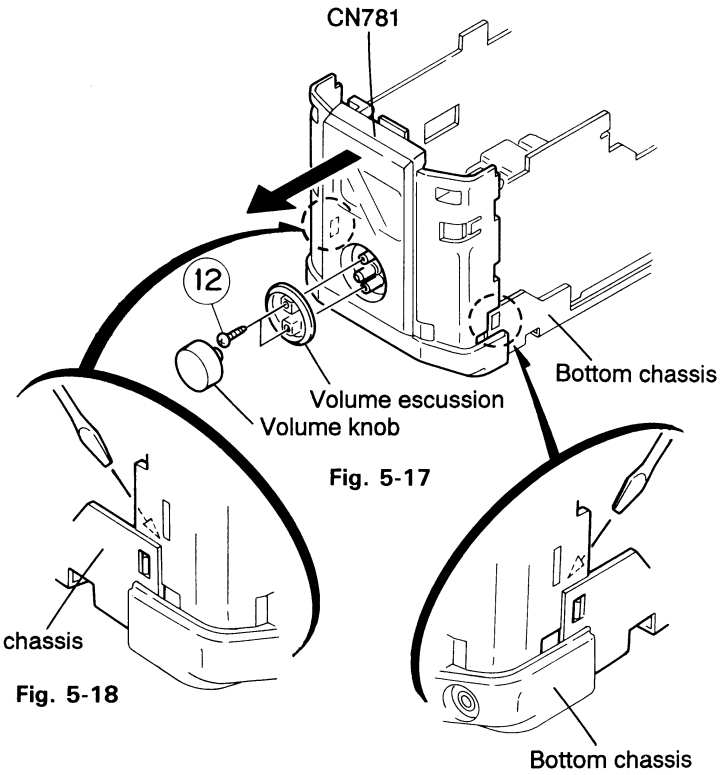


Fig. 5-17

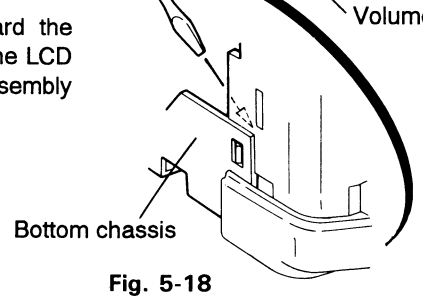


Fig. 5-18

Fig. 5-19

■ Removing the tuner switch EL driver P.C. board and microcomputer P.C. board (See Figs. 5-20 and 5-21)

1. • While expanding the engagement sections ⓐ and ⓑ with the front cabinet, remove the tuner switch EL driver P.C. board.
   • Remove the connector wire from the connector CN503 connected to the LCD microcomputer P.C. board.

2. • Remove the one screws ⑬.
   • While expanding the engagement sections ⓒ and ⓓ with the front cabinet to outside, remove the LCD microcomputer assembly.

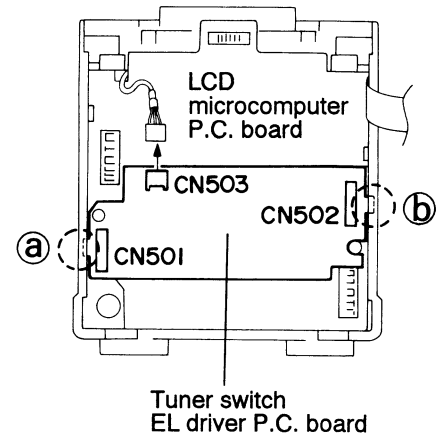


Fig. 5-20

● Assembly method

1. Insert the power supply P.C. board into the engagement section of the power supply P.C. board holder, assemble the power supply P.C. board on the bottom chassis together with the power supply P.C. board holder.

2. Subsequent to mounting the power supply transformer, the secondary side connector wire outgoing from the power supply transformer and the primary side connector wire on the power supply P.C. board should be connected respectively to the connectors CN902 and CN901 on the power supply P.C. board.

3. Connect the connector CN300 on the main board to CN903 on the power supply board, and assembly the main board on the bottom chassis.

4. Engage the front assembly exactly to the pawl at the engagement section of the bottom chassis, and connect the connectors CN302 and CN303 on the the main board respectively to the connector CN711 on the LCD microcomputer P.C. board of the front assembly and the connector CN501 on the tuner switch EL driver P.C. board.

5. Assemble the CD player assembly while plugging the connector CN801 on the operation switch P.C. board of the CD player assembly to the connector CN781 on the LCD microcomputer P.C. board of the front assembly.

6. Plug in the connectors CN633 and CN632 on the tuner function amplifier P.C. board to the connector CN502 on the tuner swtich EL driver P.C. board of the front assembly and CN761 on the LCD microcomputer P.C. board.

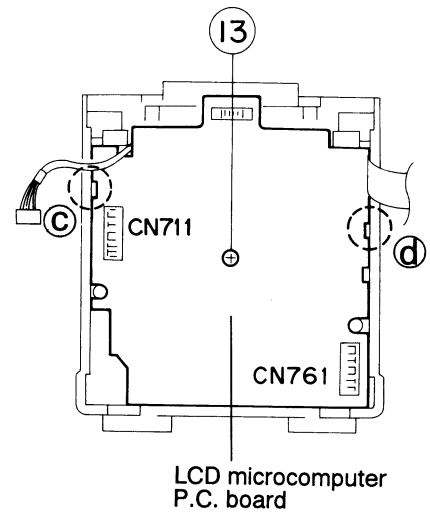


Fig. 5-21

6. Main Adjustment

■ Test Instruments reqired for adjustment

1. Low frequency oscillator
   (Frequency range: 50Hz to 20kHz)
   (Output : 0 dBs across 600 Ω terminating resistor)
2. Attenuator(Impedance : 600 Ω)
3. Test disc :CTS-1000
4. Extension cord : EXTUX1000-JIG
5. Electronic voltmeter,
6. Distortion meter
7. Frequency counter

■ Measuring conditions (Amplifier section)

Supply voltage ····· AC230V (50/60Hz)

Reference output level :Speaker
0 dBs (0.775V) / 3 Ω
: Headphone
0 dBs (0.775V)/ 32 Ω

Reference input level
:- 25dBs supplied to test point

Standard test frequency····· 1kHz

Output measuring point ····· Speaker terminal
Dummy load 3 Ω
or headphone(32 Ω)

● Standard position of switches

Function switch ····· CD

● Standard position of controls

Tone····· Maximum position

Main volume adjust ····· 0 dBs output position

Beat cut switch····· Standard 1

● Test remarks

1. Negative side of the input and output terminals of the testing set, shall be isolated from each other. The negative side should not be commonly connect ed when a 2channel electronic voltmeter is connected.
2. A dummy load shall be connected to the output terminal and the lead wires of dummy load shall be as thick as possible.

■ Measuring condition (Tuner section)

Power supply voltage to tuner····· DC 7V

Reference output ····· Speaker : 50mW(0.39 V / 3 Ω)
Headphone : 0.08V/ 32 Ω

AM modulation ····· 400Hz, 30%

FM modulation ····· 400Hz deviation 22.5kHz

● Standard position of switches and controllers

Function····· RADIO

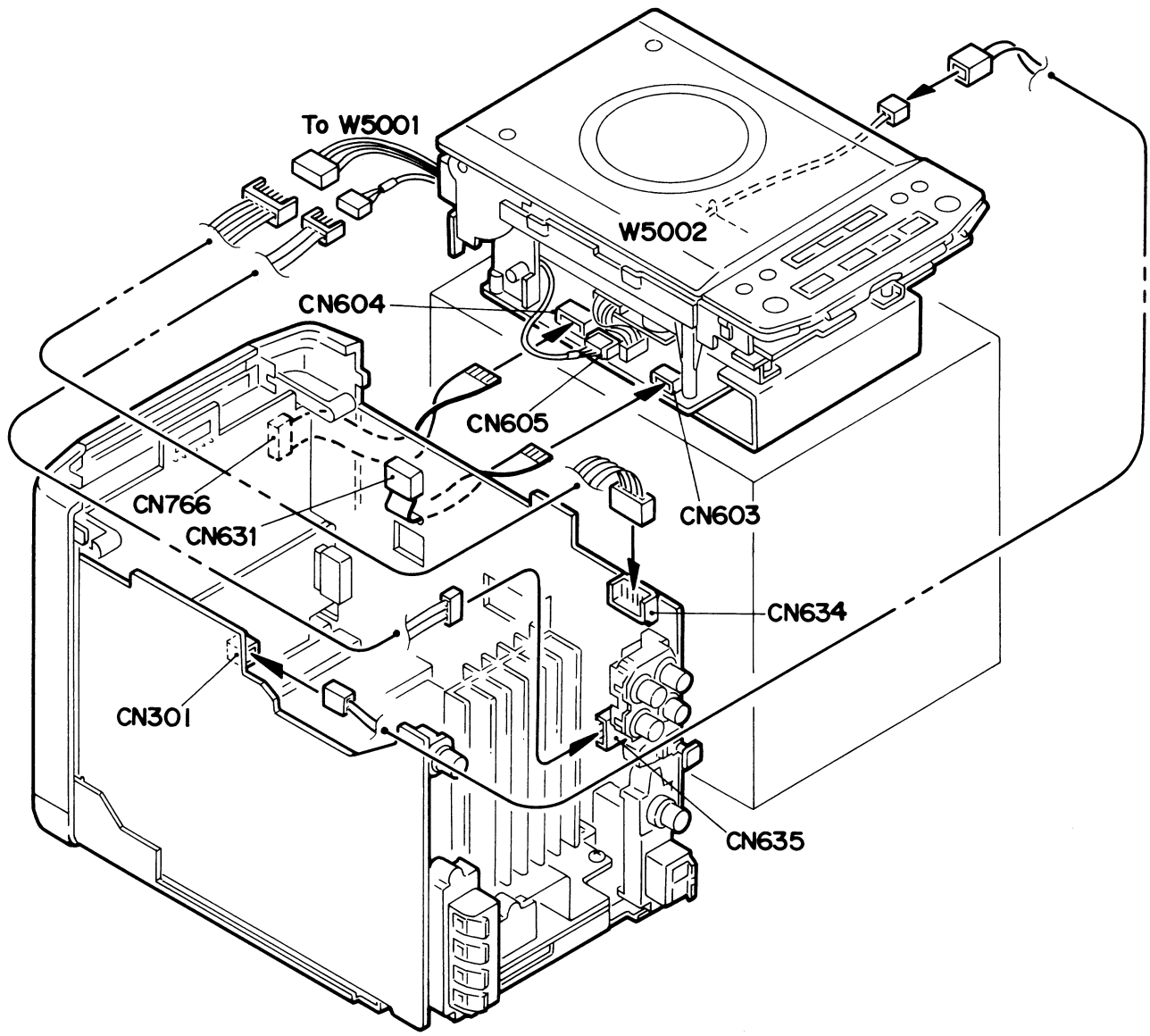
Mode ····· STEREO

Tone····· Maximum position

● Remarks for alignment

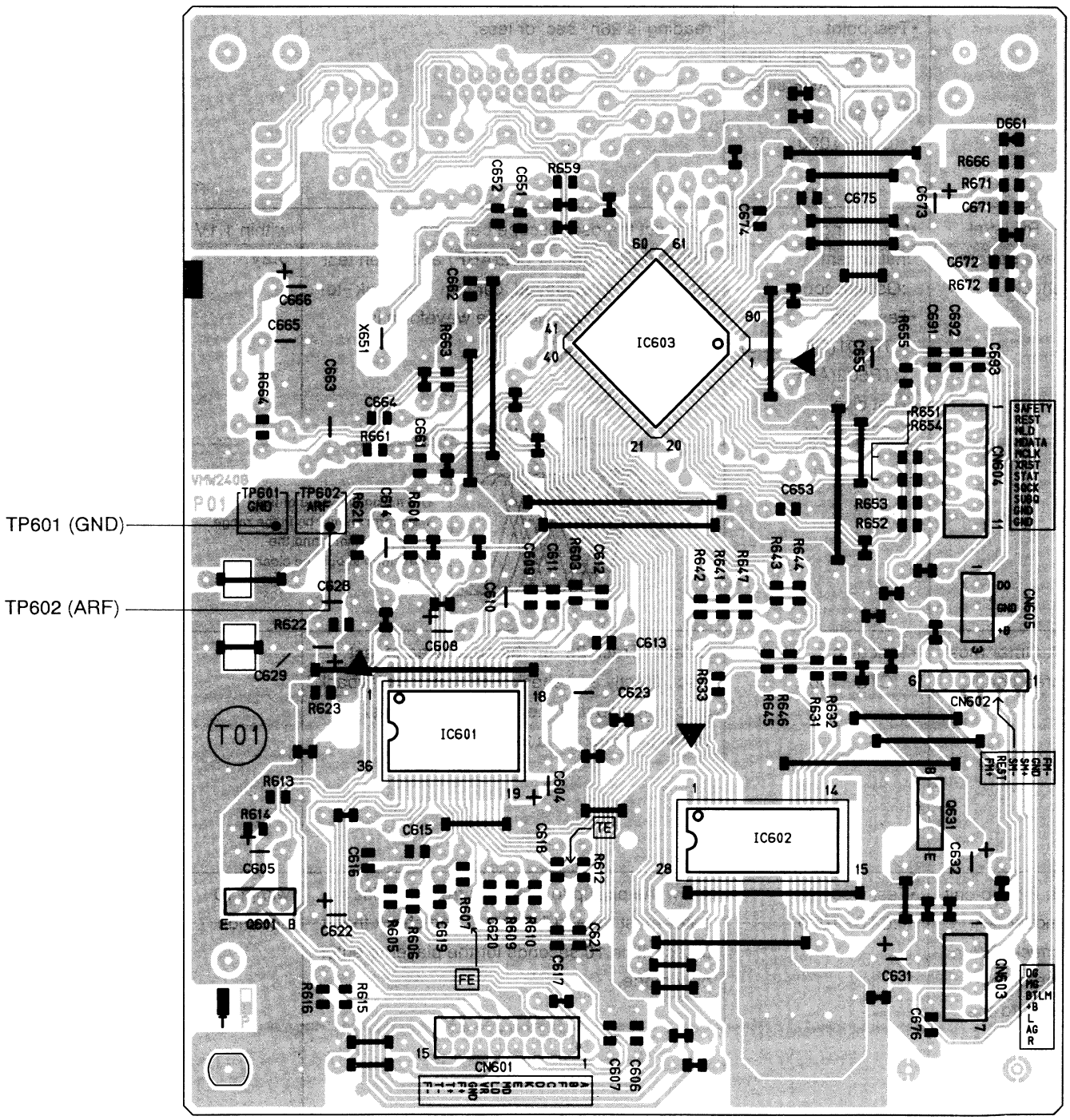
1. Connect 30 pF capacitor and 33 k Ω resistor to the output terminal of the IF sweeper in series while 0.082 μ F capacitor and 100k Ω resistor to the input terminal in series.
2. Set the output level of the IF sweeper as low as adjustable.
3. IF alignment is not necessory for both AM and FM MPX alignment is not necessory either. All IFTs and MPX coil are non-adjusting type.

■ How to Connect the Extention Cord (EXTUX1000-JIG)

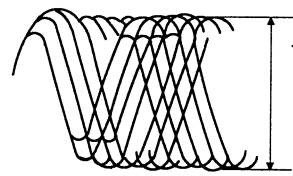


■ Arrangement Checking Test Point

(CD Amplifier board)



■ CD section

Items	Conditions	Adjustment and Confirmation procedure	Standard Value	Adjusting
1. Jitter check	•Measuring instrument : Jitter meter •Test point :TP601(GND side) :TP602(ARF side) •Test disc :CTS-1000	Connect the jitter meter between TP601(GND) and TP602(ARF) and when test disc (track 1) is played, confirm that the meter reading is 26n-sec or less.	26n-sec or less	–
2. RF level (eye pattern) check	•Measuring instrument :Oscilloscope •Test point :TP601(GND side) :TP602(ARF side) •Test disc :CTS-1000	Connect the oscilloscope between TP601(GND) and TP602(ARF) and when test disc (track 1) is played, confirm that peak-to-peak value of oscilloscope waveform is within 1.1V ± 0.2V. Eye-pattern waveform  The maximum value of this waveform should be in the range of specifications and the waveform should be clear	within 1.1V ± 0.2V.	–
3. Outer most area check	•Test disc :CTS-1000	Select "Track 26 "on the outer area of test disc directly and check that it begins playback smoothly and that there are no abnormal conditions such as a tracking error.		–
4. Pickup unit movement check (From the outer area to the inner area	•Test disc :CTS-1000	Allow the pickup to skip over from the disc's outer most area to " Track 1" and check that it takes within 10 seconds for the player to enter play mode.	within 10 seconds	–

7. Troubleshooting

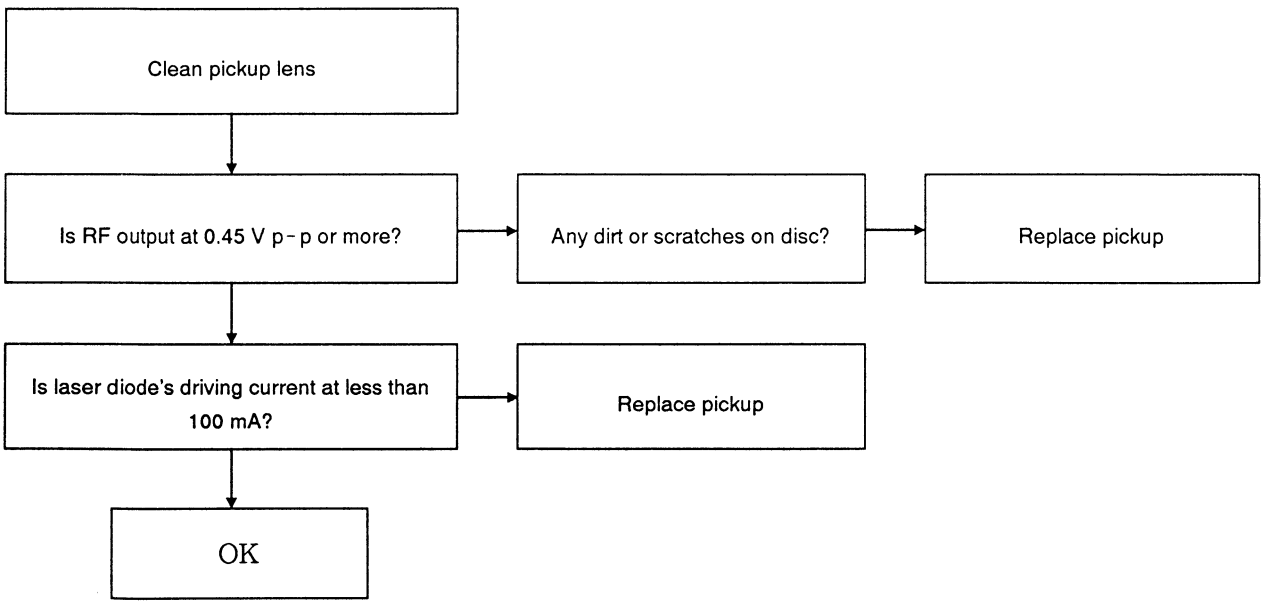
■ Pickup maintenance

(1) Checking the service life of laser diode

If a laser diode reaches the end of its service life, the following phenomena will show up. Similar symptoms may also appear when the pickuplens becomes too dirty. In this case, clean the lens.

1) The RF output (between IC601 ⑦ and ⑱ (GND)) lowers.
2) The driving current, necessary for the laser diode to emit lights, increases. (Calculate from the voltage level at both ends of the R614 at 10 Ω .)

◆ Following the flow chart shown below, check the service life.


Clean pickup lens
Is RF output at 0.45 V p-p or more?
Any dirt or scratches on disc?
Replace pickup
Is laser diode's driving current at less than 100 mA?
Replace pickup
OK

◆ How to measure laser diode's driving current

After connecting a voltmeter at both ends of the R614(10 Ω), measure the voltage during playback. If the voltage level is at 1.0 V or more, the service life of the laser diode has expired.

Laser diode's driving current (A)
= Voltage level at both ends of R614 (V)/10 (Ω)
When voltage level is at 1.0 V:
1.0 V/10 Ω = 0.1 A = 100 mA

Note:
The laser diode easily breaks down. Be sure to turn the power off before connecting a voltmeter.

◆ HOW TO OPERATE THE CD SELF-DIAGNOSIS FUNCTION

◆ The CD Self-diagnosis Function

If any malfunction occurs in the CD player, this system can be set to make an error code indication appear on the LCD to point out the defective parts. This efficiently helps service personnel find the causes of the malfunction.

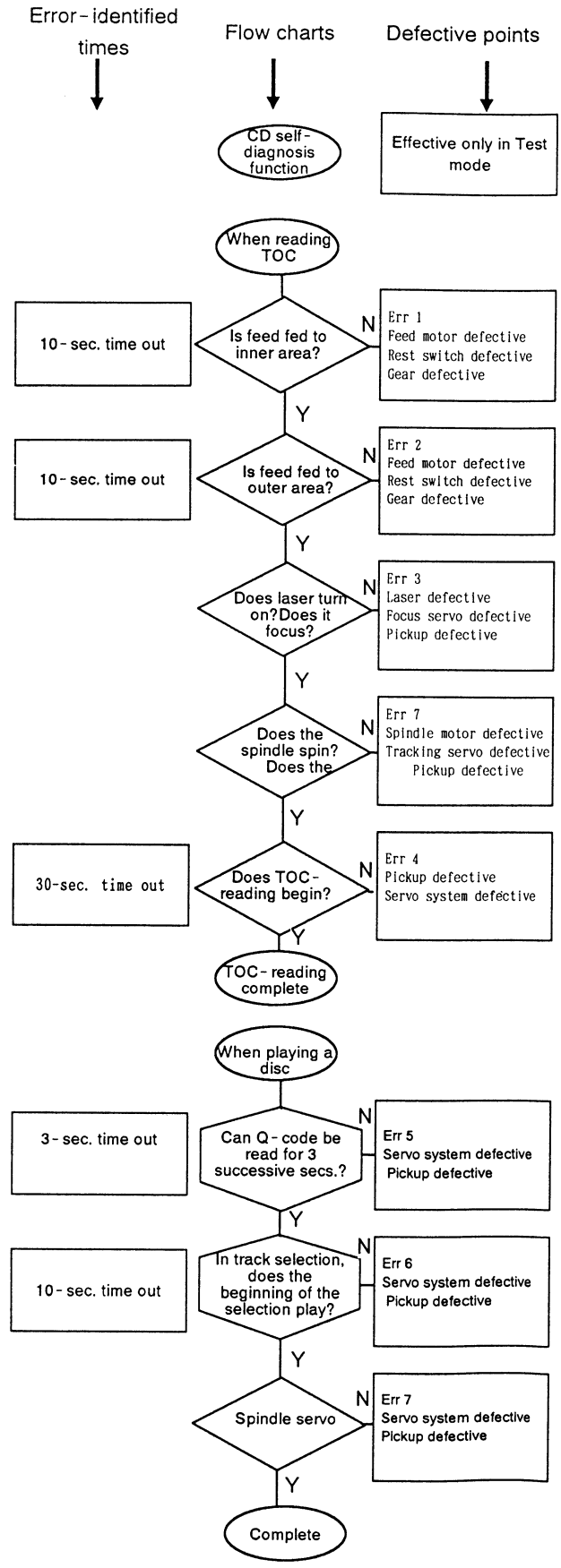
1. Operation

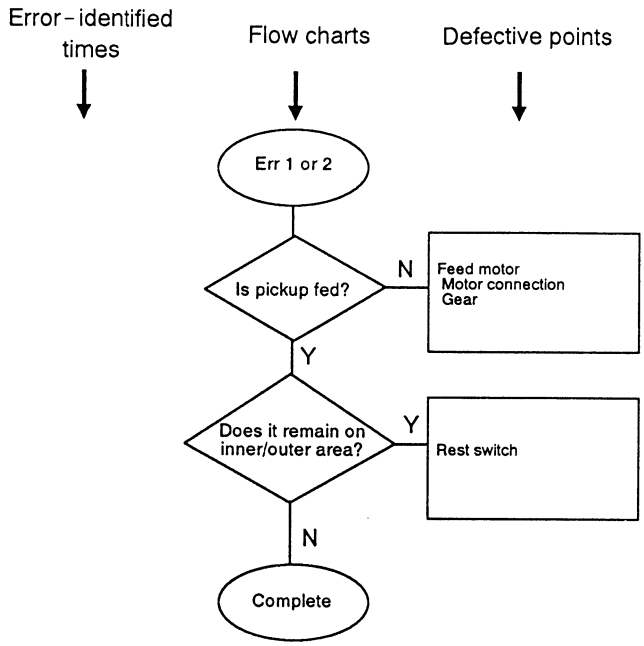
[1] Press the three [■/CLEAR], [+10] and [POWER] buttons on the remote control to enter the Test mode. (Then the illuminating portions of the LCD all light up together. This indicates that the system has entered the Test mode.)

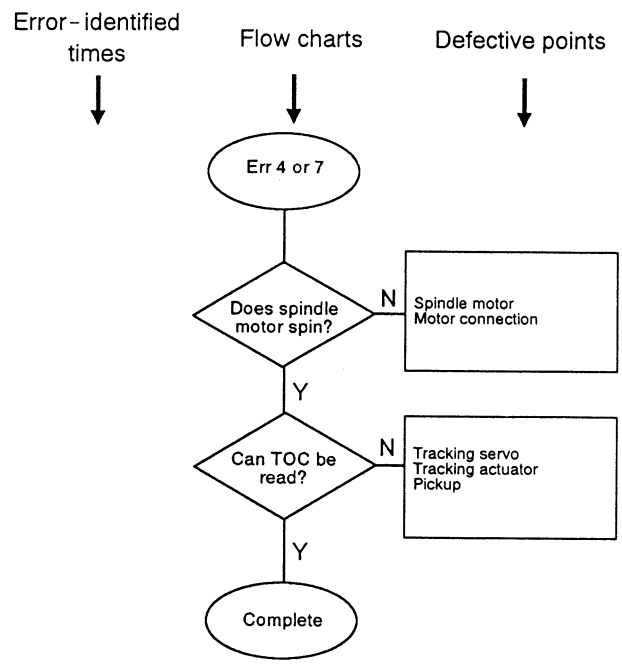
[2] Play a CD. If the operation is defective in any way, an error code should appear on the LCD.

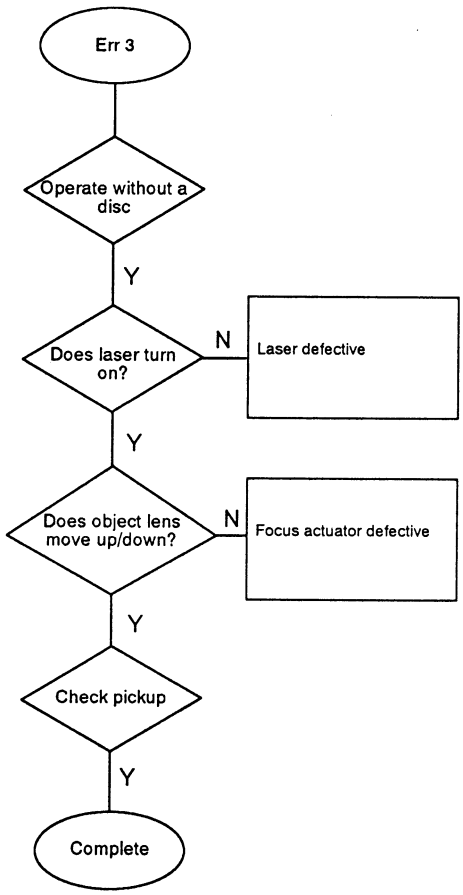
[3] Identify the point of malfunction in accordance with the error code displayed.

2. Error codes & defective points

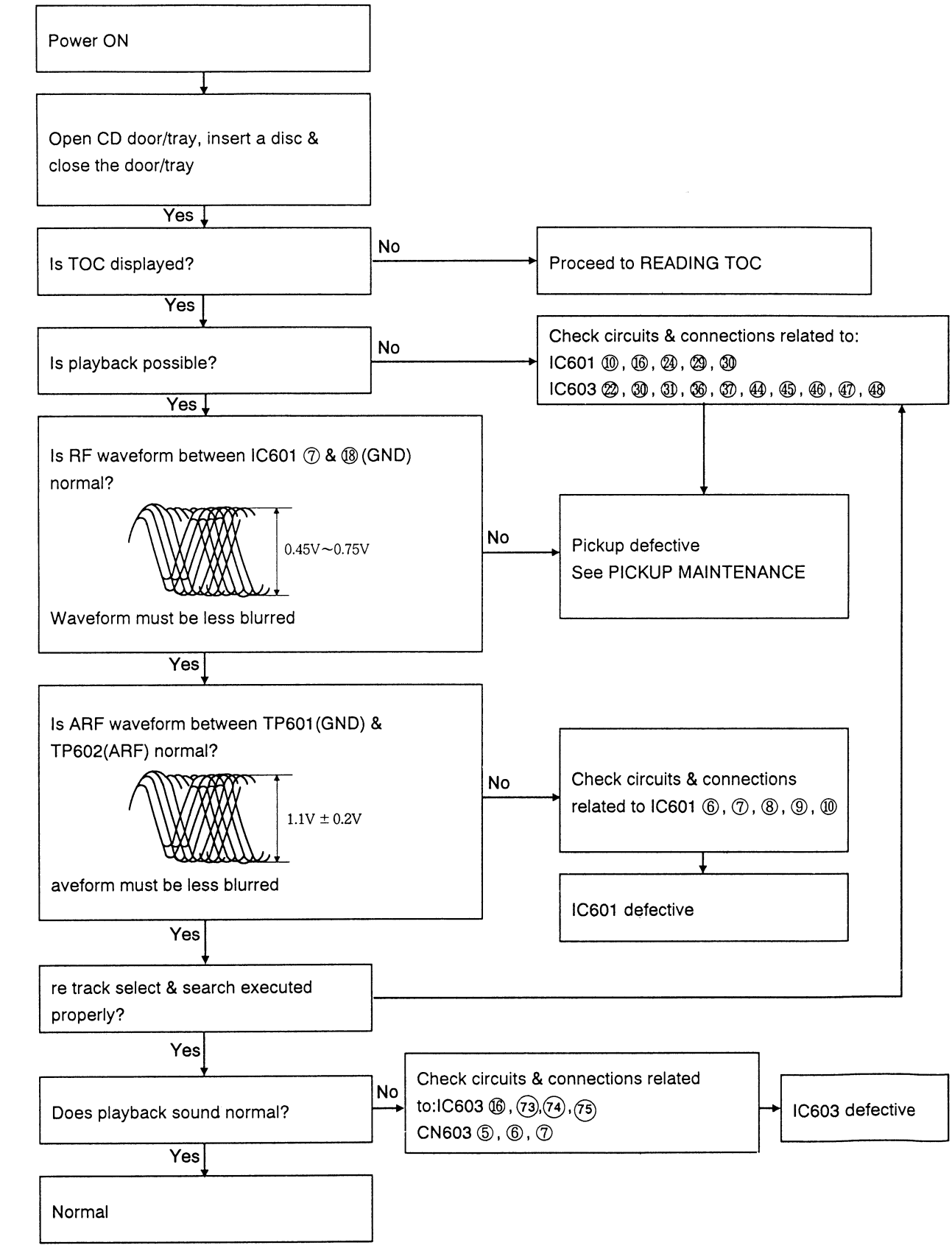



Error - identified times
Flow charts
Defective points
Err 1 or 2
Is pickup fed?
N
Feed motor
Motor connection
Gear
Y
Does it remain on inner/outer area?
Y
Rest switch
N
Complete


Error - identified times
Flow charts
Defective points
Err 4 or 7
Does spindle motor spin?
N
Spindle motor
Motor connection
Y
Can TOC be read?
N
Tracking servo
Tracking actuator
Pickup
Y
Complete


Err 3
Operate without a disc
Y
Does laser turn on?
N
Laser defective
Y
Does object lens move up/down?
N
Focus actuator defective
Y
Check pickup
Y
Complete

◆ General


Power ON
Open CD door/tray, insert a disc & close the door/tray
Yes
Is TOC displayed?
No
Proceed to READING TOC
Yes
Is playback possible?
No
Check circuits & connections related to:
IC601 ⑩, ⑯, ㉔, ㉙, ㉚
IC603 ㉒, ㉚, ㉛, ㊱, ㊲, ㊹, ㊺, ㊻, ㊼, ㊽
Yes
Is RF waveform between IC601 ⑦ & ⑱ (GND) normal?
0.45V~0.75V
Waveform must be less blurred
No
Pickup defective
See PICKUP MAINTENANCE
Yes
Is ARF waveform between TP601(GND) & TP602(ARF) normal?
1.1V ± 0.2V
aveform must be less blurred
No
Check circuits & connections related to IC601 ⑥, ⑦, ⑧, ⑨, ⑩
IC601 defective
Yes
re track select & search executed properly?
Yes
Does playback sound normal?
No
Check circuits & connections related to:IC603 ⑯, (73), (74), (75)
CN603 ⑤, ⑥, ⑦
IC603 defective
Yes
Normal

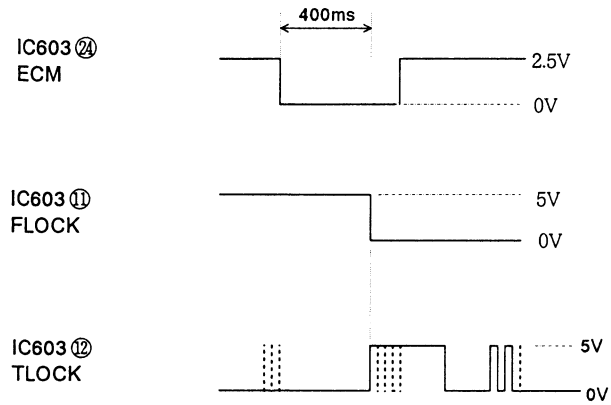
◆ Reading TOC

After opening & closing CD door/tray again with a disc inserted, does the disc spin?

N → Proceed to FOCUS SEARCH

Y

Just after opening & closing CD door/tray again, do the waveforms shown below appear?



N

Y

Check circuits & connections related to:
IC601 ⑥, ⑦, ⑧, ⑩
IC603 ㉕, ㊹, ㊺, ㊻, ㊼, ㊽
CN604 ⑧, ⑨

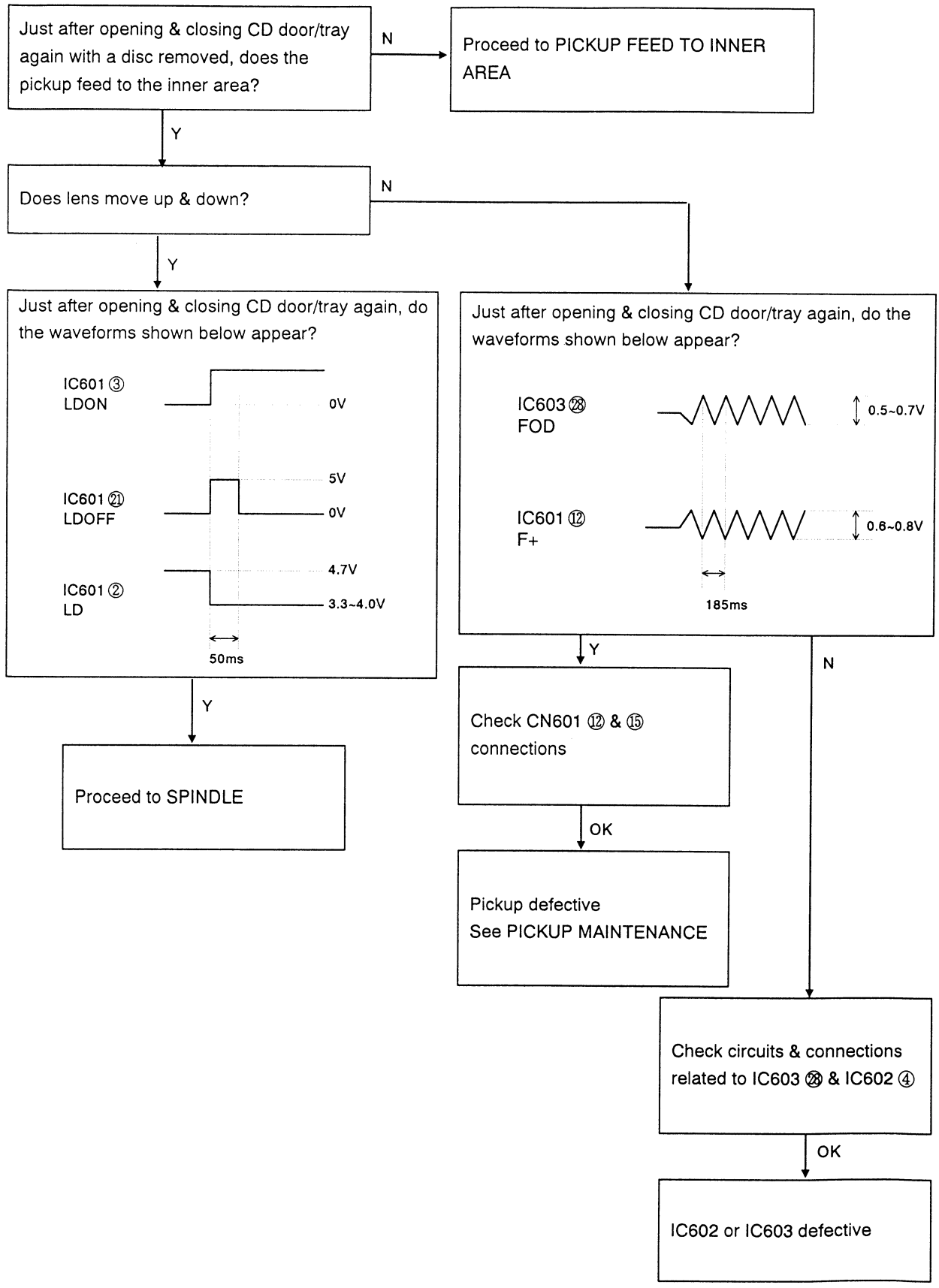
OK

If IC603 ⑪ waveform is abnormal
Check circuits & connections related to:
CN601 ①, ②, ④, ⑤
IC601 ㉗, ㉘, ㉟, ㊱
If IC603 ⑫ waveform is abnormal
Check circuits & connections related to:
CN601 ③, ⑦, ⑬, ⑭
IC601 ㉕, ㉖, ㉝, ㉞
IC603 ㉗, ㉝
IC602 ㉔, ㉖, ㉗

OK

Pickup defective
See PICKUP MAINTENANCE

◆ Focus search



◆ Pickup feed to inner area

Check CN602, CN603, CN604 connections

OK

Just after opening & closing CD door/tray again, is 6 - 7 V supplied from Q631 Emitter Terminal?

N → Check CD regulator circuit on amp PC board

Y

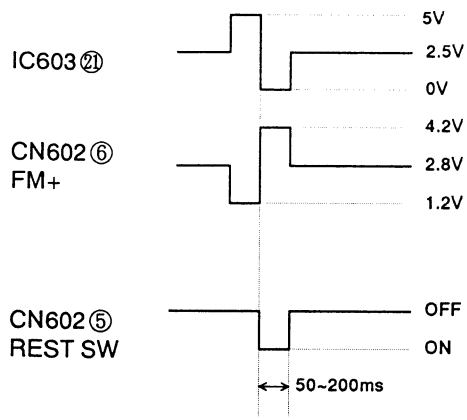
Just after opening & closing CD door/tray again, is 5 V supplied from Q631 Corrector Terminal?

→ Check circuits & connections related to Q631 & IC602 ⑤, ⑥

OK → Q631 or IC602 defective

Y

Just after opening & closing CD door/tray again, do the waveforms shown below appear?

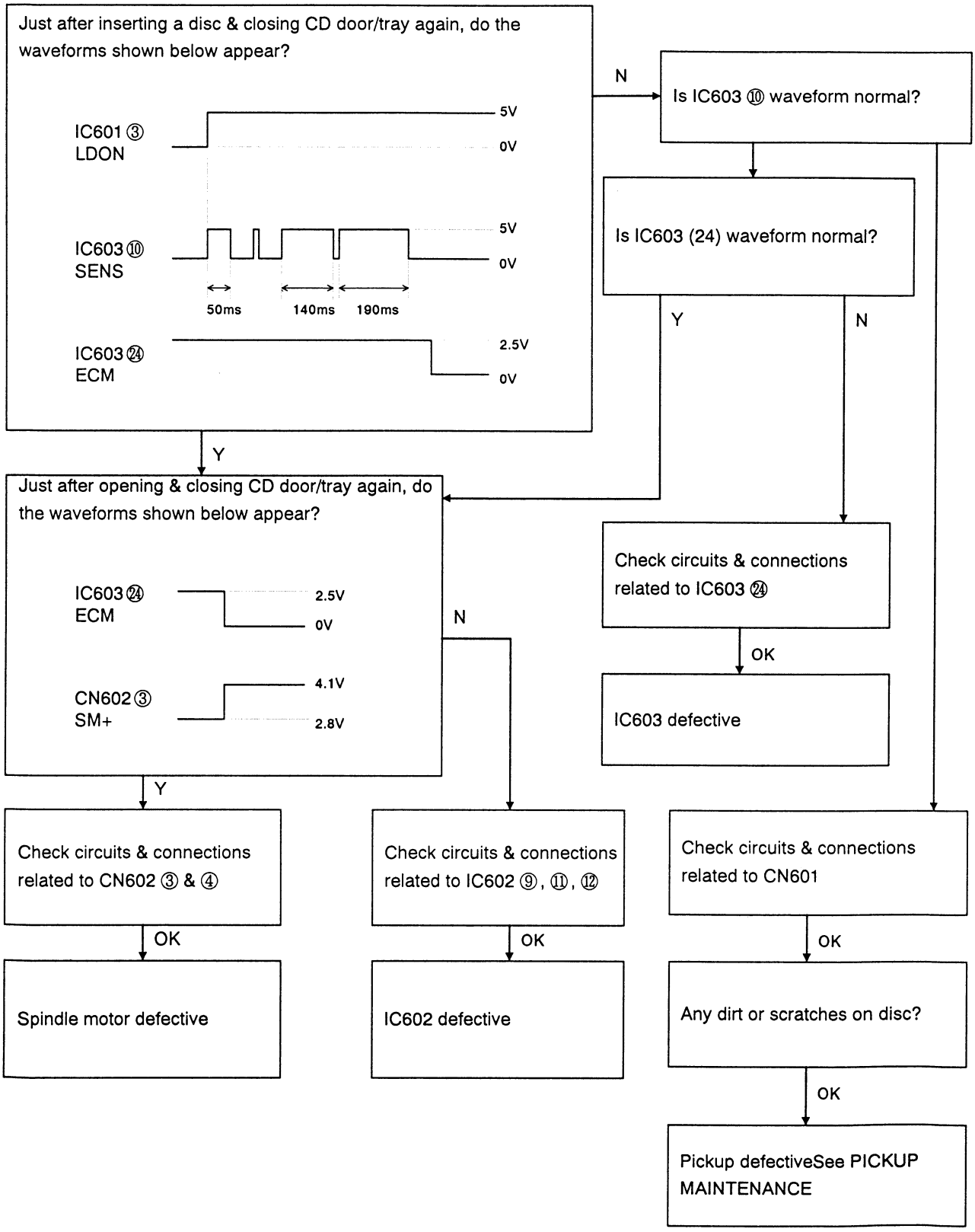


N → Check circuits & connections related to:
CN604
IC603 ㉑
IC602 ⑰, ⑱, ⑳
CN602 ①, ②, ⑤, ⑥

OK → Microcomputer or IC603 or IC602 defective

Y → Normal

◆ Spindle


Just after inserting a disc & closing CD door/tray again, do the waveforms shown below appear?
IC601 ③ LDON
5V
0V
IC603 ⑩ SENS
5V
0V
50ms
140ms
190ms
IC603 ㉔ ECM
2.5V
0V
N
Is IC603 ⑩ waveform normal?
Is IC603 (24) waveform normal?
Y
N
Y
Just after opening & closing CD door/tray again, do the waveforms shown below appear?
IC603 ㉔ ECM
2.5V
0V
CN602 ③ SM+
4.1V
2.8V
N
Check circuits & connections related to IC603 ㉔
OK
IC603 defective
Y
Check circuits & connections related to CN602 ③ & ④
OK
Spindle motor defective
Check circuits & connections related to IC602 ⑨, ⑪, ⑫
OK
IC602 defective
Check circuits & connections related to CN601
OK
Any dirt or scratches on disc?
OK
Pickup defectiveSee PICKUP MAINTENANCE

8. Main IC Block Diagram

■ Integrated circuit diagram

■ IC2 (LC72136) PLL

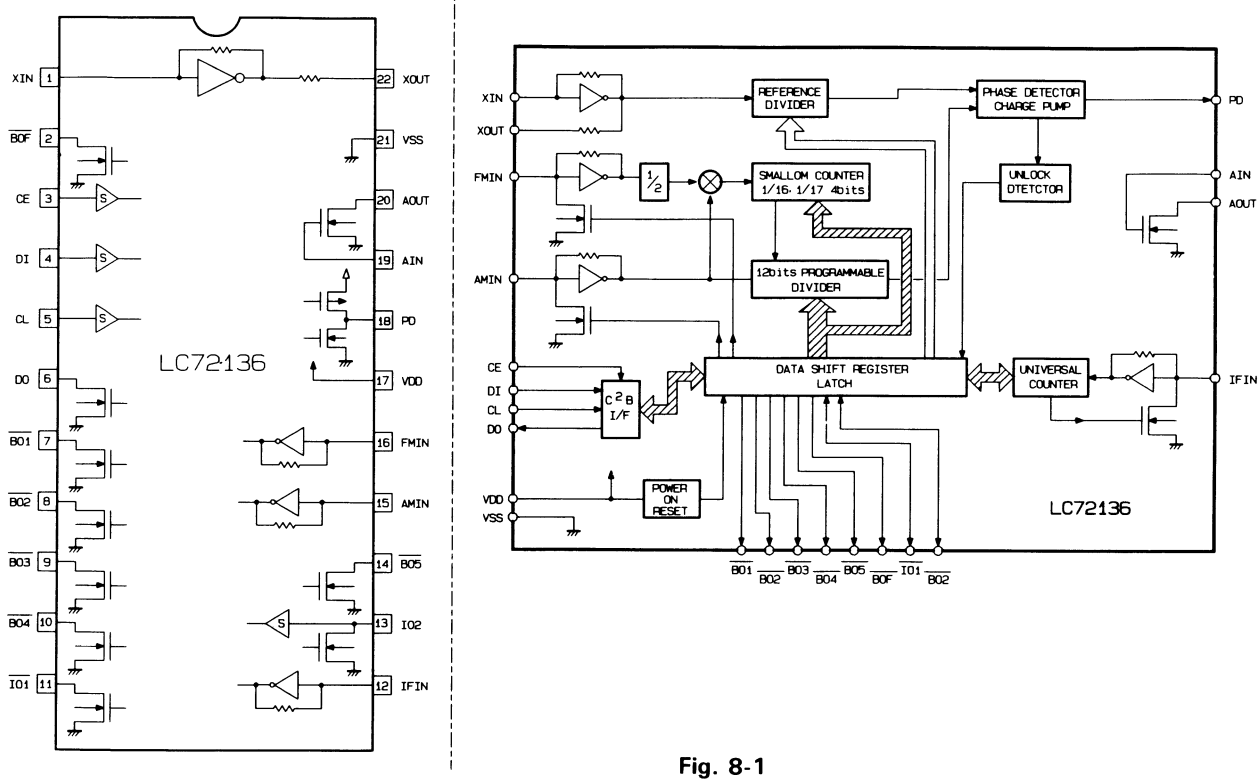


Fig. 8-1

■ IC1 (TA2057N) IF & MPX

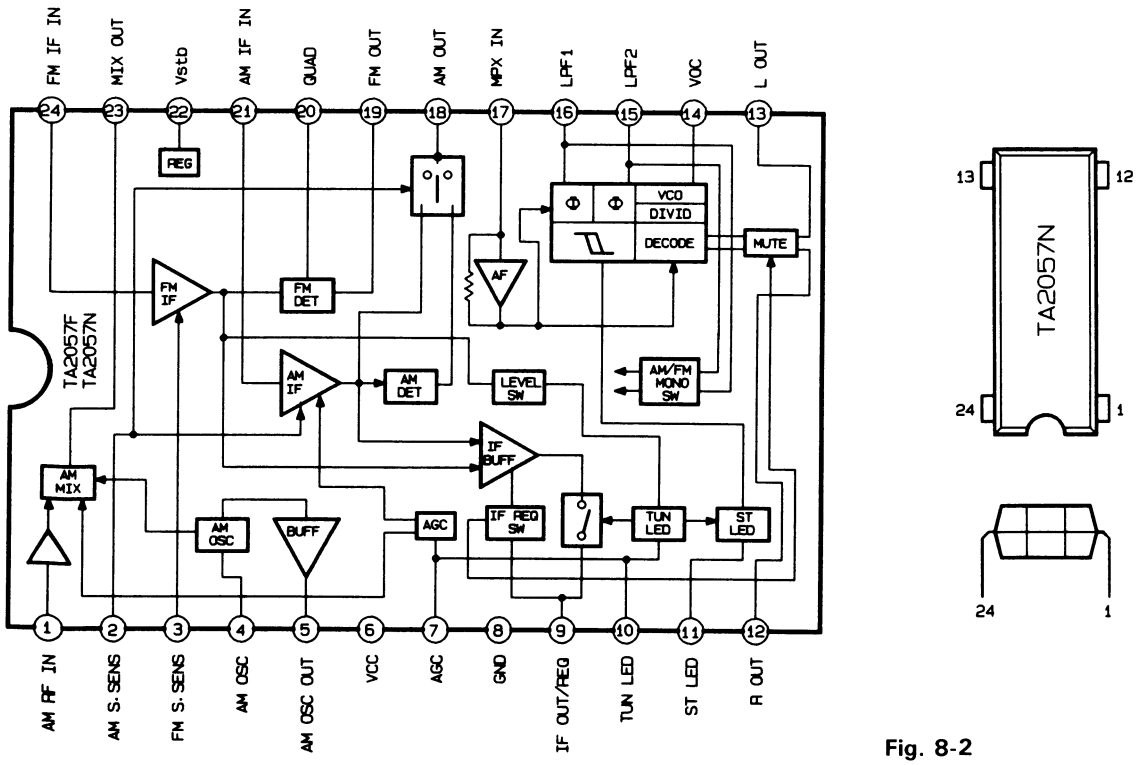
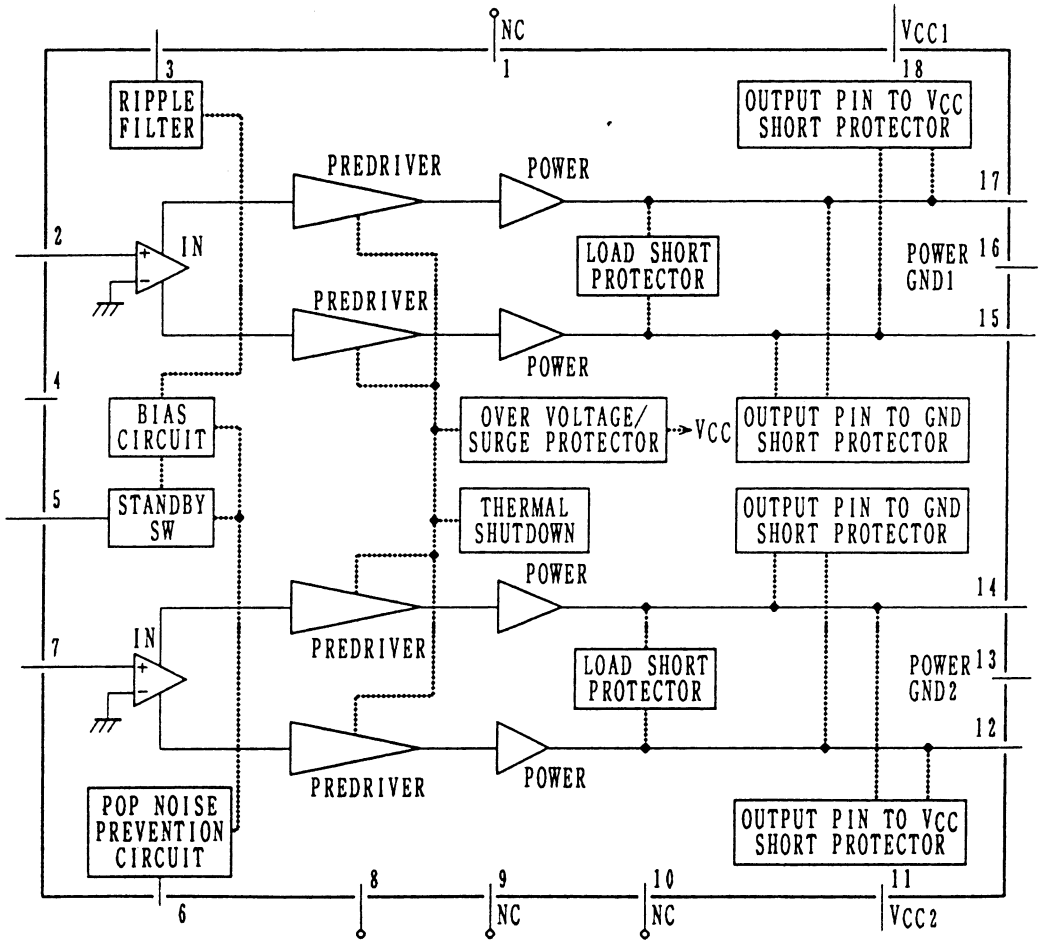


Fig. 8-2

■ IC31: LA4705NA (POWER AMPLIFIER)



■ IC701 : UPD78063GF Terminal's Function Table

Pin No.	Symbol	I/O	Function
1	SDATA	I/0	Sirial data (TUNER PLL)
2	SCK	0	Sirial clock (TUNER PLL)
3	SUBQ	I	CD Q cord data
4	NC	0	Non connection
5	SQCK	0	Sincro clock of CD Q cord data
6	IC		Connect to Vss
7	X2		Main system clock 4.19MHz
8	X1	I	Main system clock 4.19MHz
9	Vdd		Power source
10	XT1	I	Sub system clock 32.768kHz
11	XT2		Sub system clock 32.768kHz
12	RESET	I	Reset
13	$\overline{\text{REM}}$	I	Remote control unit
14	NC	I	Non connection
15	VOL A	I	Volume encorder A
16	BEAT 2	0	Main clock selecttor 2
17	BEAT 1	0	Main clock selecttor 1
18	+ BCTL	0	Switched 5V control (H = 5V off)
19	$\overline{\text{XRESET}}$	0	CD LSI reset
20	MCLK	0	CD LSI comand clock
21	MDATA	0	CD LSI comand data
22	MLD	0	CD LSI comand load
23	MTO	0	CD door motor
24	MT1	0	CD door motor
25	$\overline{\text{DIMMER}}$	0	Backlight brilliant (H = normal,L = dimmer)
26	F.AUX	0	Fuction AUX (L = by AUX)
27	AVss		AD convertor ground
28	SAFETY2	I	Detection 2 for avnormal power voltage
29	DOOR	I	Reset/open/close switch
30	SAFETY1	I	Detection 1 for avnormal power voltage
31	SAFETY0	I	Detection 0 for avnormal power voltage
32	KEY 1	I	Set key input 1
33	KEY 0	I	Set key input 0 (Inclued to Version select)
34	MTS	0	Door motor speed (L = Normal, H = Slow)
35	$\overline{\text{LO.MUTE}}$	0	Line out mute
36	AVdd		Power source for AD convertor (Vdd = same)
37	AVref		Reference power voltage for AD convertor
38	BUP	I	Distinction of backup power source (H = Backup)
39	F.TUNER	0	Function Tuner
40	Vss		Ground

Pin No.	Symbol	I/O	Function
41	$\overline{\text{MPX}}$	I	Detection of FM stereo (L = Stereo)
42	PERIOD	0	Stolove of Tuner PLL
43	VOL B	I	Volume encorder B
44	BASS	0	Bass control (PWM)
45	TRE	0	Treble control (PWM)
46	VOL	0	Volume control (PWM)
47	$\overline{\text{S.BASS}}$	0	S.BASS ON/OFF (ON = L, OFF = H)
48	$\overline{\text{S.MUTE}}$	0	System mute (mute = L)
49	P.OUT	0	Power on/off
50	$\overline{\text{F.CD}}$	0	Function CD (CD = L)
51	COM 0	0	LCD Remote control unit terminal 0
52	COM 1	0	LCD Remote control unit terminal 1
53	COM 2	0	LCD Remote control unit terminal 2
54	COM 3	0	LCD Remote control unit terminal 3
55	BIAS		LCD bias power voltage
56	VLC 0		LCD bias power voltage
57	VLC 1		LCD bias power voltage
58	VLC 2		LCD bias power voltage
59	Vss		Ground
60	S0	0	LCD segument 0
61	S1	0	LCD segument 1
62	S2	0	LCD segument 2
63	S3	0	LCD segument 3
64	S4	0	LCD segument 4
65	S5	0	LCD segument 5
66	S6	0	LCD segument 6
67	S7	0	LCD segument 7
68	S8	0	LCD segument 8
69	S9	0	LCD segument 9
70	S10	0	LCD segument 10
71	S11	0	LCD segument 11
72	S12	0	LCD segument 12
73	S13	0	LCD segument 13
74	S14	0	LCD segument 14
75	S15	0	LCD segument 15
76	S16	0	LCD segument 16
77	S17	0	LCD segument 17
78	S18	0	LCD segument 18
79	S19	0	LCD segument 19
80	S20	0	LCD segument 20

Pin No.	Symbol	I/O	Function
81	S21	0	LCD segument 21
82	S22	0	LCD segument 22
83	S23	0	LCD segument 23
84	S24	0	LCD segument 24
85	S25	0	LCD segument 25
86	S26	0	LCD segument 26
87	S27	0	LCD segument 27
88	S28	0	LCD segument 28
89	S29	0	LCD segument 29
90	S30	0	LCD segument 30
91	S31	0	LCD segument 31
92	S32	0	LCD segument 32
93	S33	0	LCD segument 33
94	S34	0	LCD segument 34
95	S35	0	LCD segument 35
96	S36	0	LCD segument 36
97	S37	0	LCD segument 37
98	S38	0	LCD segument 38
99	S39	0	LCD segument 39
100	STATUS	I	

9. Block Diagram

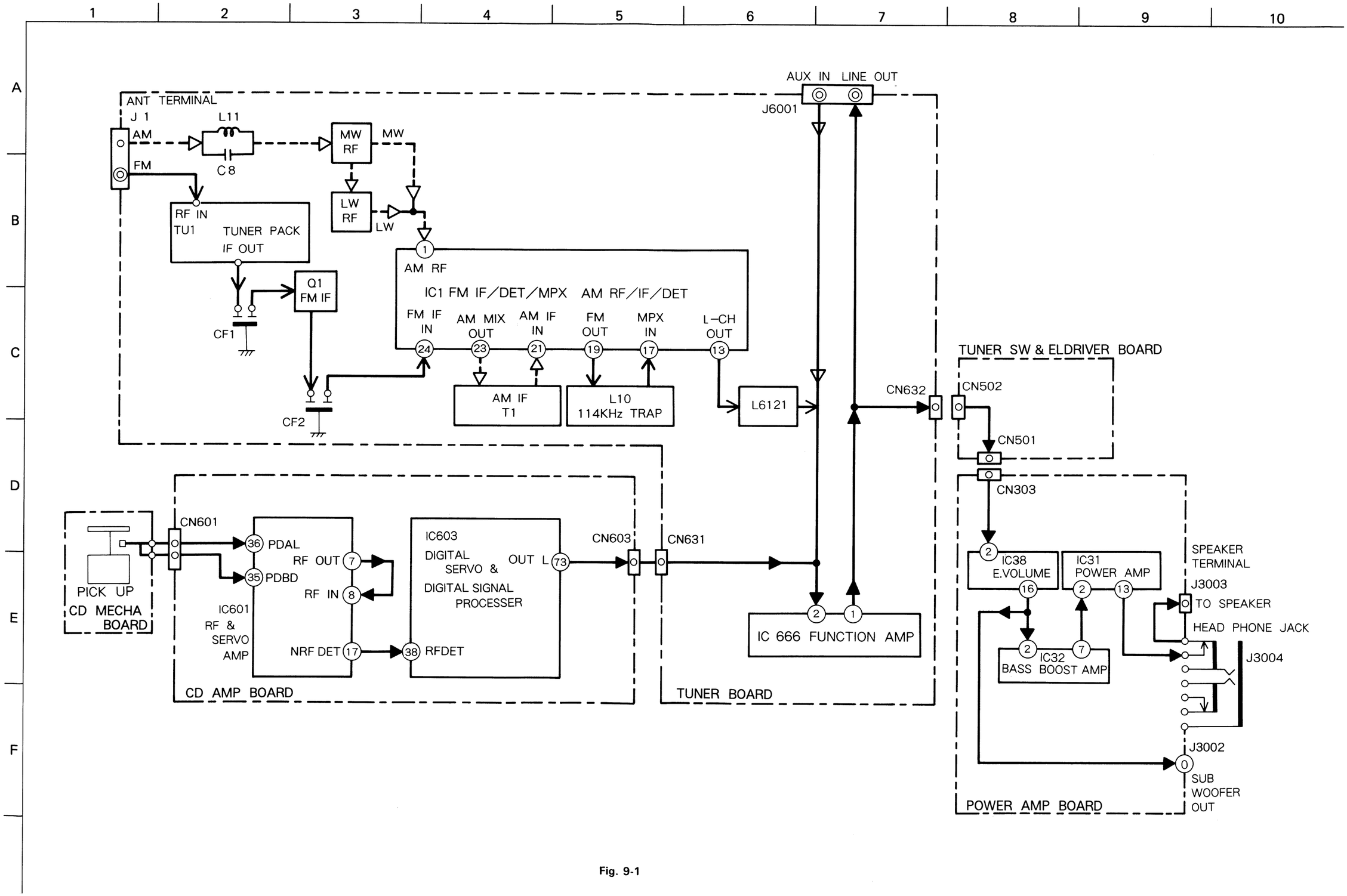


Fig. 9-1

10. Wiring Connections

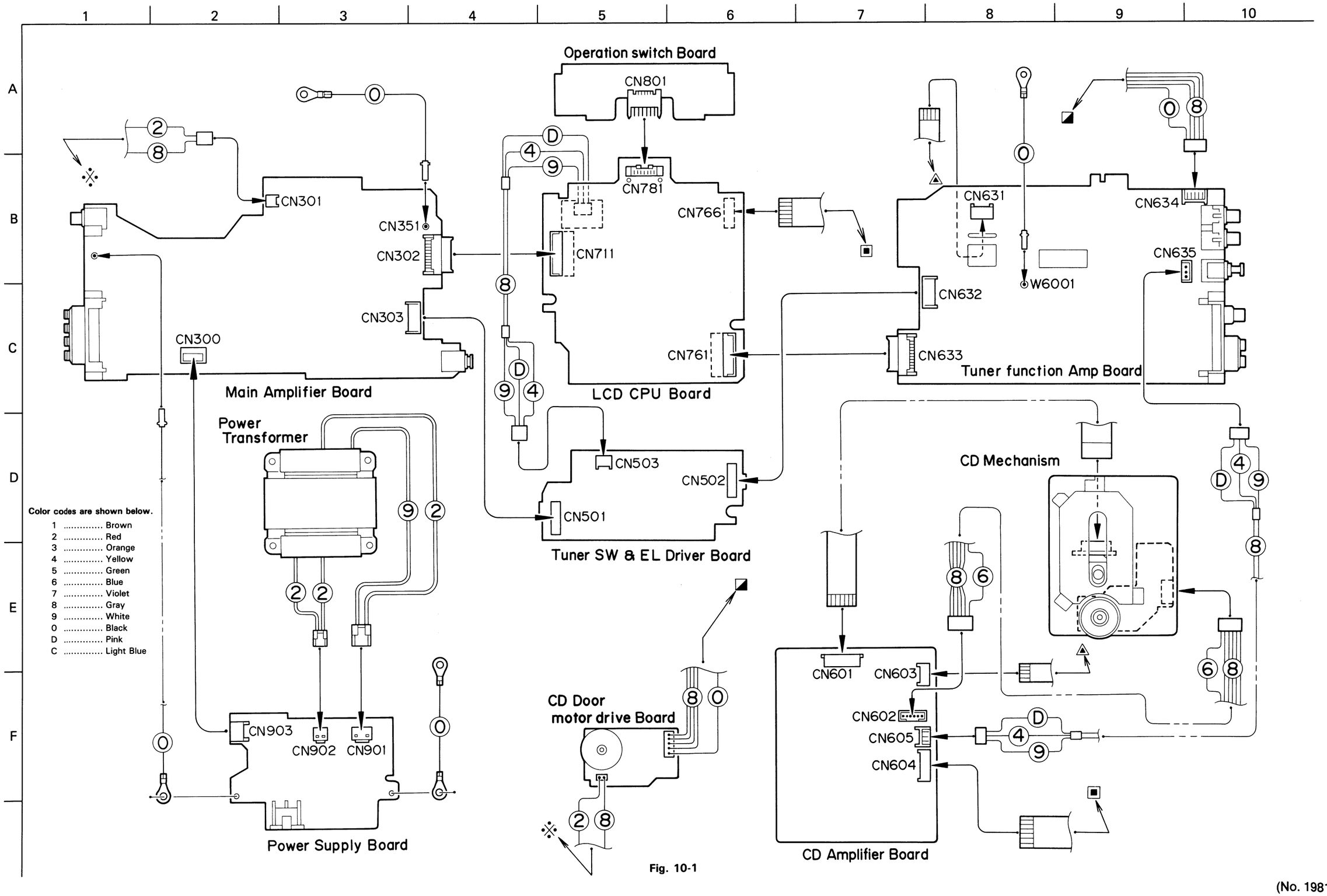
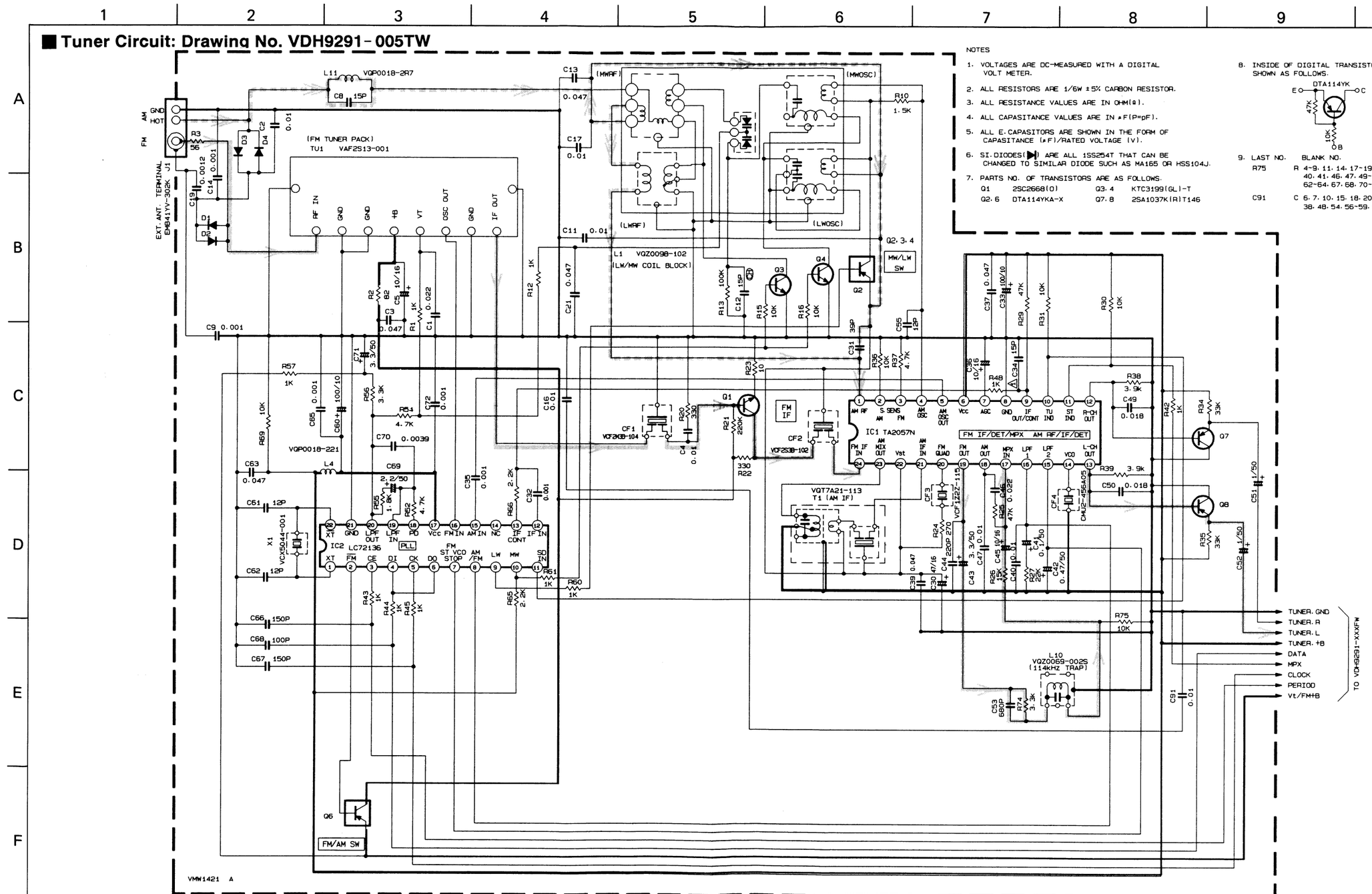


Fig. 10-1

11. Standard Schematic Diagram

■ Tuner Circuit: Drawing No. VDH9291-005TW


NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
2. ALL RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
4. ALL CAPASITANCE VALUES ARE IN μF(P=pF).
5. ALL E.CAPASITORS ARE SHOWN IN THE FORM OF CAPASITANCE (μF)/RATED VOLTAGE (V).
6. SI.DIODES( ) ARE ALL 1SS254T THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA165 OR HSS104J.
7. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.
Q1 2SC2668(O) Q3. 4 KTC3199(GL)-T
Q2. 6 DTA114YKA-X Q7. 8 2SA1037K(R)T146
8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.
DTA114YK
9. LAST NO. BLANK NO.
R75 R 4-9. 11. 14. 17-19. 28. 32. 33 40. 41. 46. 47. 49-51. 53. 58. 59 62-64. 67. 68. 70-73
C91 C 6. 7. 10. 15. 18. 20. 22-29. 34 38. 48. 54. 56-59. 64. 73-90
EXT. ANT. TERMINAL EM41YV-302K J1
AM GND HOT FM
(FM TUNER PACK) TU1 VAF2S13-001
RF IN GND GND +B VT OSC OUT GND IF OUT
L11 VQP0018-2R7
L1 VQZ0098-102 (LW/MW COIL BLOCK)
(MWRF) (MWOSC) (LWRF) (LWOSC)
MW/LW SW
IC1 TA2057N
FM IF/DET/MPX AM RF/IF/DET
IC2 LC72136 PLL
FM ST VCO AM STOP /FM LW MW
VQT7A21-113 T1 (AM IF)
CF1 VCF10GB-104
CF2 VCF25GB-102
CF3 VCF1222-115
CF4 CMU2-456A05
VQP0018-221
X1 VCX5044-001
L4
L10 VQZ0068-002S (114KHz TRAP)
FM/AM SW
TUNER. GND
TUNER. R
TUNER. L
TUNER. +B
DATA
MPX
CLOCK
PERIOD
Vt/FM+B
TO M-XXX-1626HDA
VMW1421 A

	CONDITION PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC1	FM NO SIGNAL	2.0	0.5	0	2.0	5.2	5.2	0	0	0.3	5.2	5.2	1.1	1.1	4.6	3.9	3.9	1.4	0	1.3	1.1	2.0	2.0	5.2	2.0
	FM 60dB STEREO	2.0	0.5	0	2.0	5.2	5.2	1.1	0	0.3	0	0	1.1	1.1	4.5	4.1	3.9	1.4	0	1.4	1.1	2.0	2.0	5.2	2.0
	AM NO SIGNAL	2.0	0.5	0	2.0	5.0	5.2	0	0	0.3	5.2	5.2	1.1	1.1	4.8	0.1	0	1.4	1.4	1.5	1.6	2.0	2.0	5.2	2.0
IC2	FM NO SIGNAL	2.4	0	0	5.1	4.9	5.1	3.9	3.9	2.0	4.1	5.2	0	0	0	0	2.6	5.2	1.0	1.0	3.7	0	2.7		

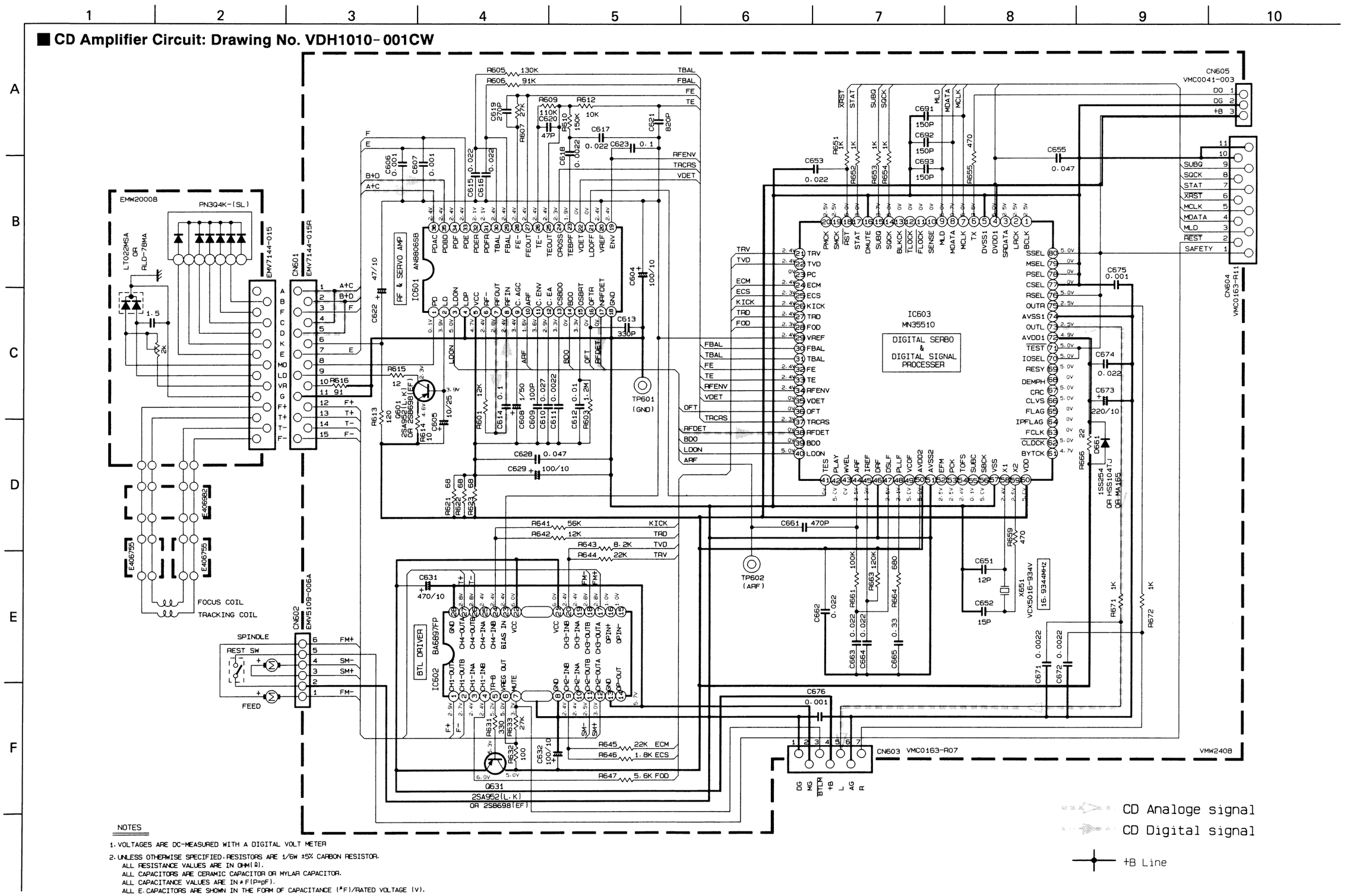
Tr NO.	Q1			Q6			Q7			Q8		
PIN NO.	E	C	B	E	C	B	E	C	B	E	C	B
FM 87.5MHz NO SIGNAL	0	7.5	0.7	8.8	8.7	0	1.6	0	1.1	1.6	0	1.1
AM 522KHz NO SIGNAL	0	0	0	8.8	0	8.7	1.6	0	1.1	1.6	0	1.1

Tr NO.	Q2			Q3			Q4		
PIN NO.	E	C	B	E	C	B	E	C	B
AM 522KHz NO SIGNAL	2.0	2.0	0.1	0	0	0.7	0	0	0.7
AM 144KHz NO SIGNAL	2.0	2.0	2.0	0	0	0.1	0	0	0.1

FM Radio signal
LW Radio signal
MW Radio signal
+B Line

Note : VDH9291005TW

■ CD Amplifier Circuit: Drawing No. VDH1010-001CW

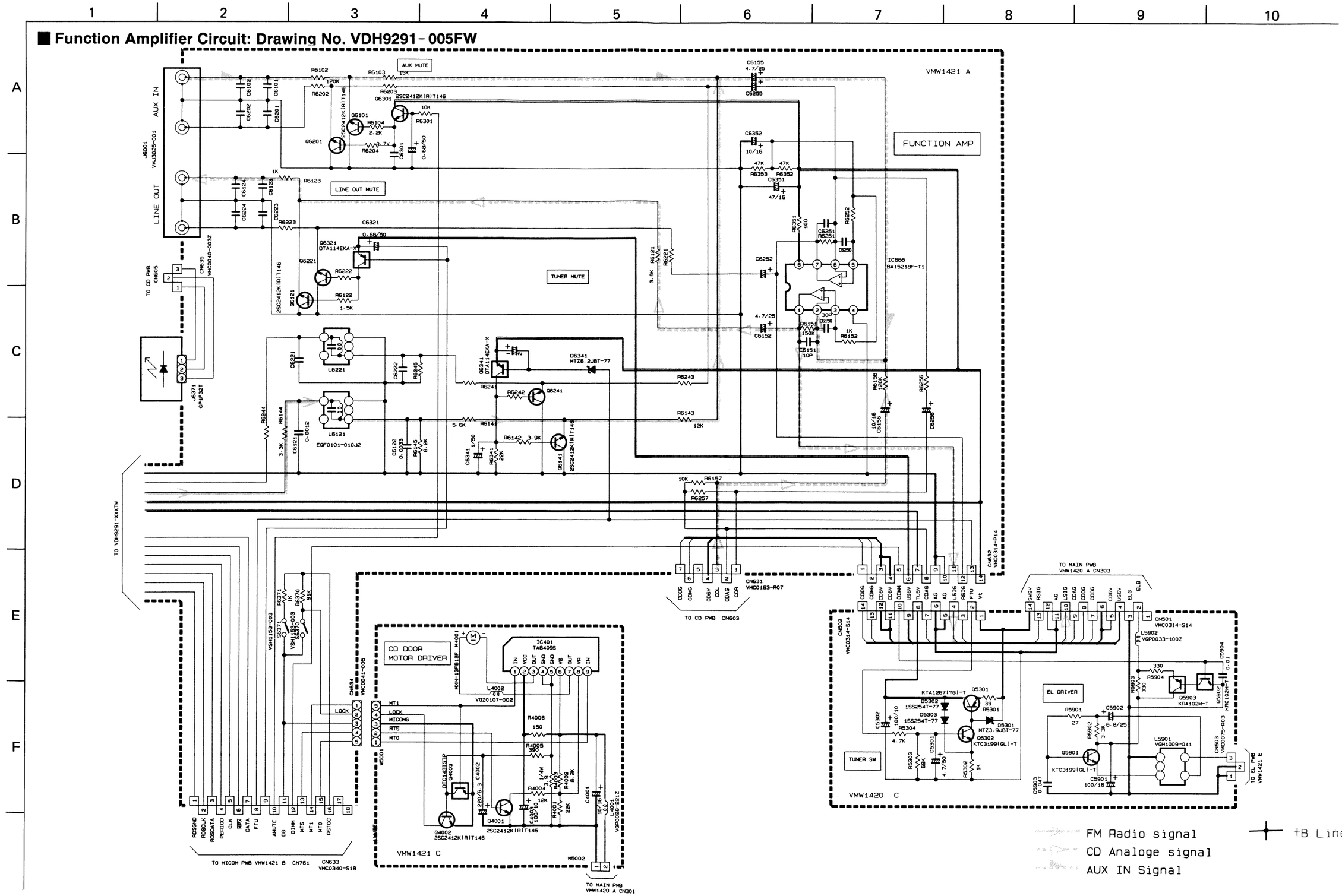


NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).

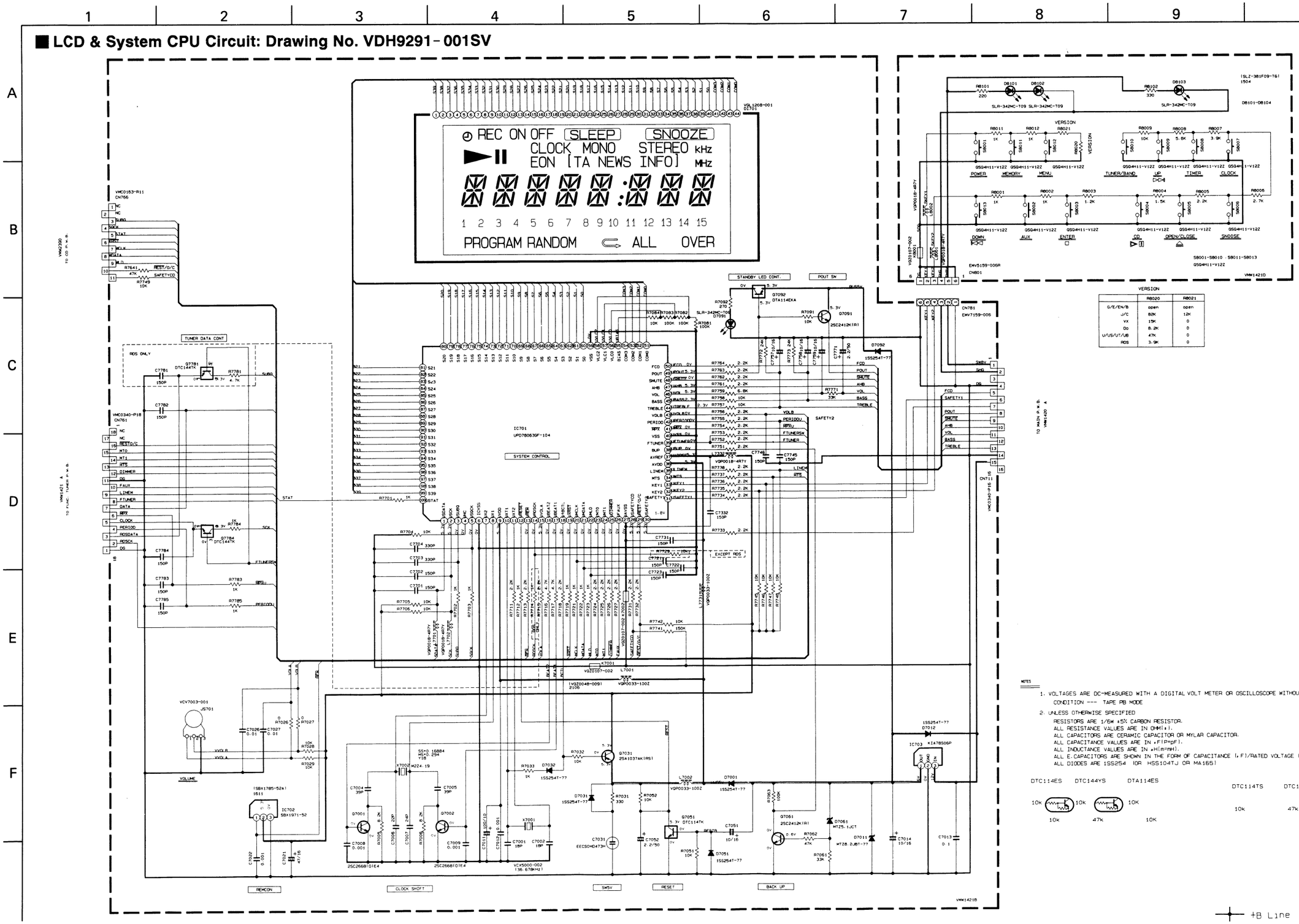
Note : VDH1010001CW

■ Function Amplifier Circuit: Drawing No. VDH9291-005FW



Note : VDH9291005FW

■ LCD & System CPU Circuit: Drawing No. VDH9291-001SV



VERSION	RB020	RB021
G/E/EN/B	open	open
J/C	82K	12K
VX	15K	0
DG	8.2K	0
U/US/UT/AB	47K	0
RDS	3.9K	0

NOTES

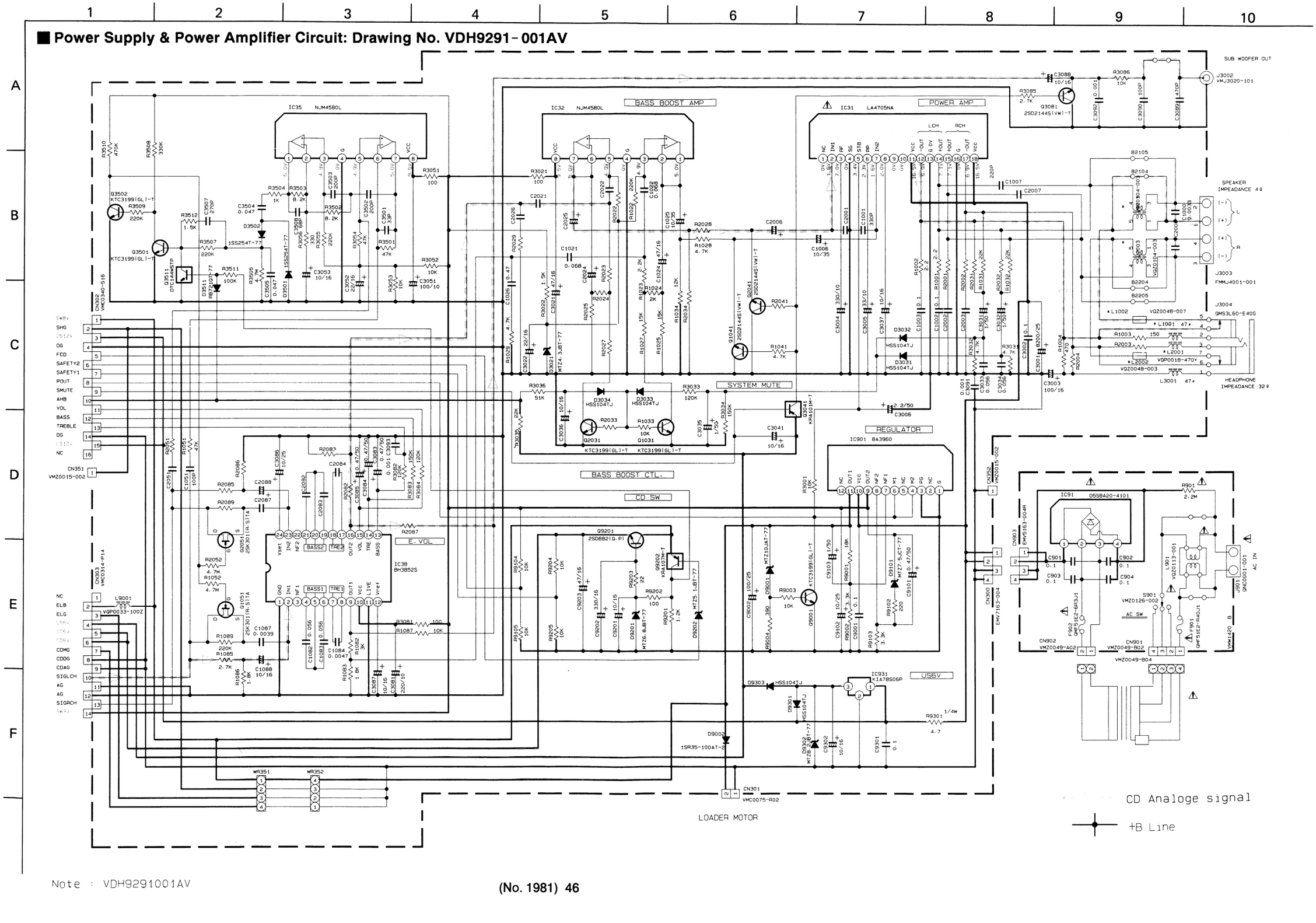
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION --- TAPE PB MODE
2. UNLESS OTHERWISE SPECIFIED
   RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS254 (OR 1SS104TJ OR MA165)

DTC114ES DTC144YS DTA114ES

DTC114TS	DTC144TS
10k	47k

+B Line

■ Power Supply & Power Amplifier Circuit: Drawing No. VDH9291-001AV



Note : VDH9291001AV

12. Location of P. C. Board Parts

■ **Main Amplifier Board: Block No. 01**

● **Power Supply Board ➡**

● **Power Amplifier Board ➡**

← ● **Tuner Switch & EL Drire Board**

Fig. 12-1

■ Tuner & System CPU Board: Block No. 02

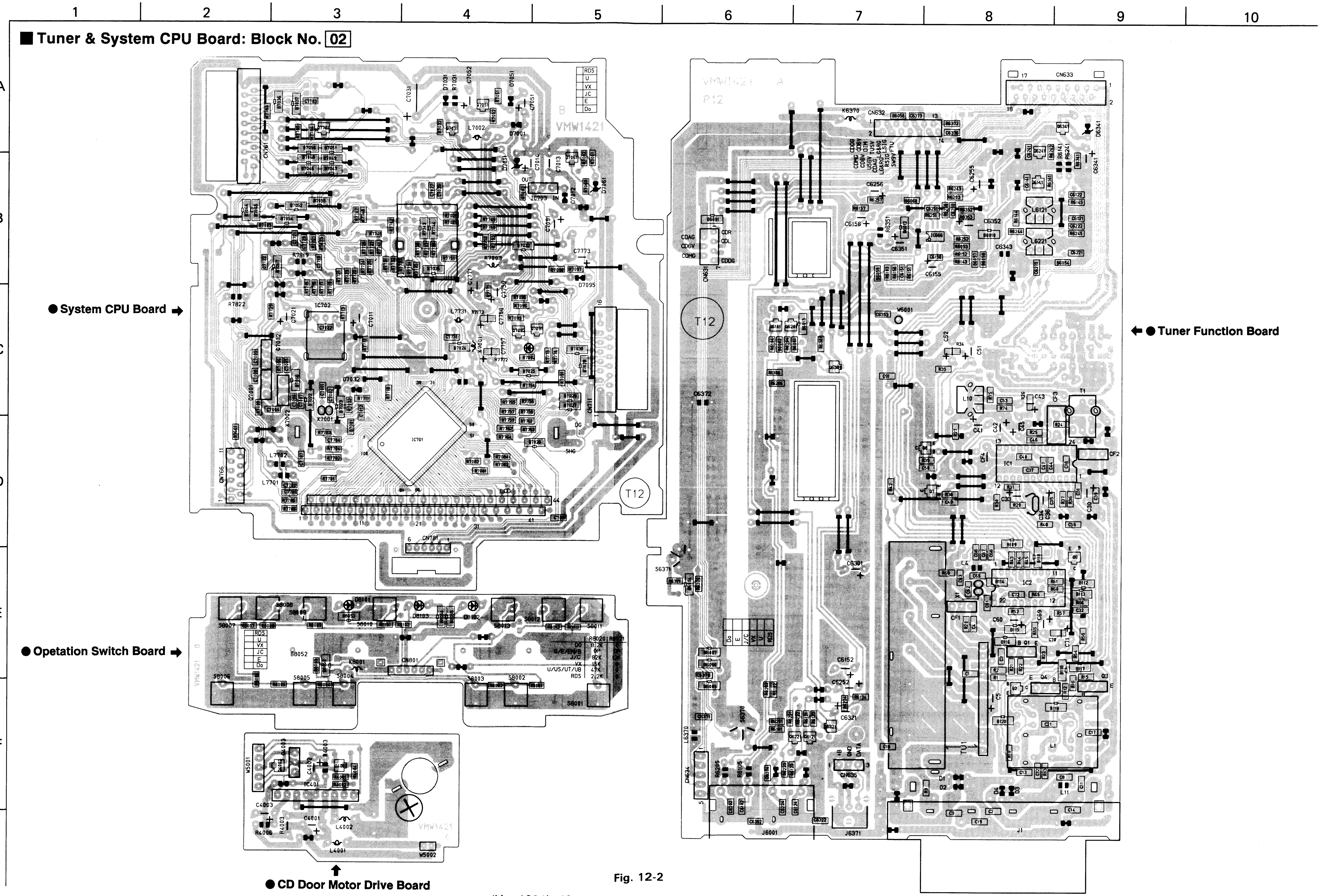


Fig. 12-2

1 2 3 4 5 6 7 8 9 10

A B C D E F

■ CD Amplifier Board: Block No. 03

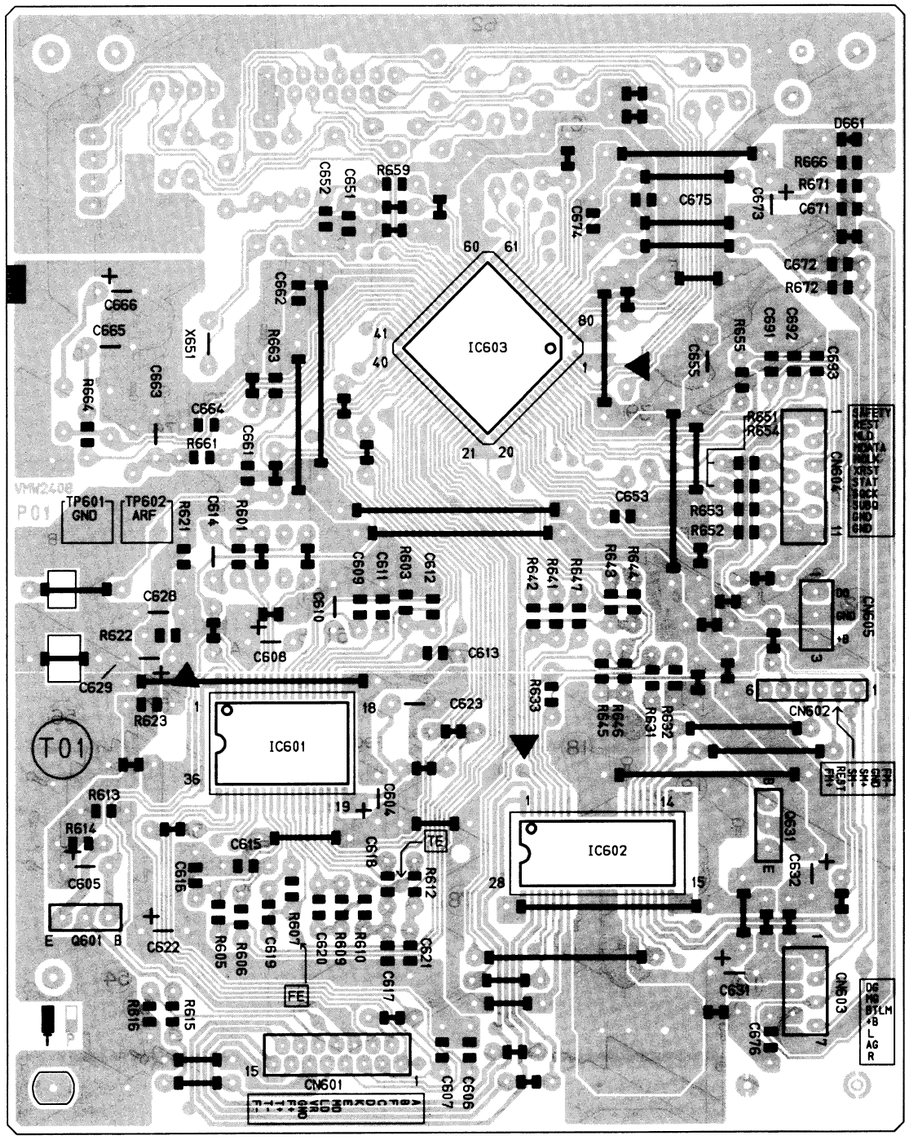


Fig. 12-3

■ Additional board (#1~500): Block No. 01

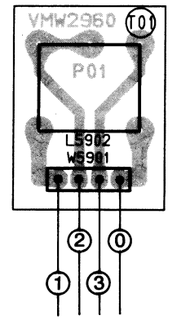
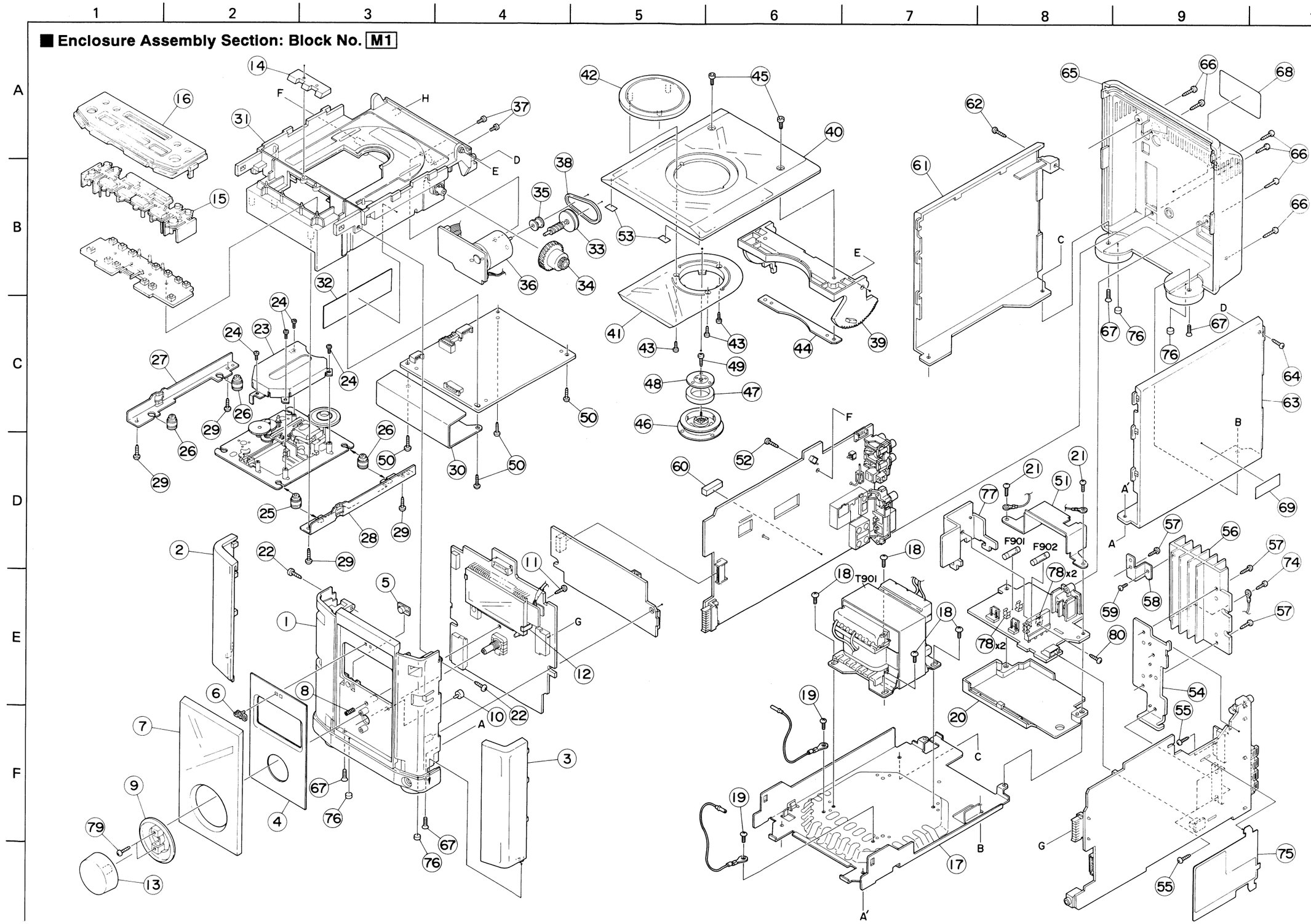


Fig. 12-4

13. Analytic Drawing and Parts List

■ **Enclosure Assembly Section: Block No. M1**



■ Enclosure Assembly Parts List

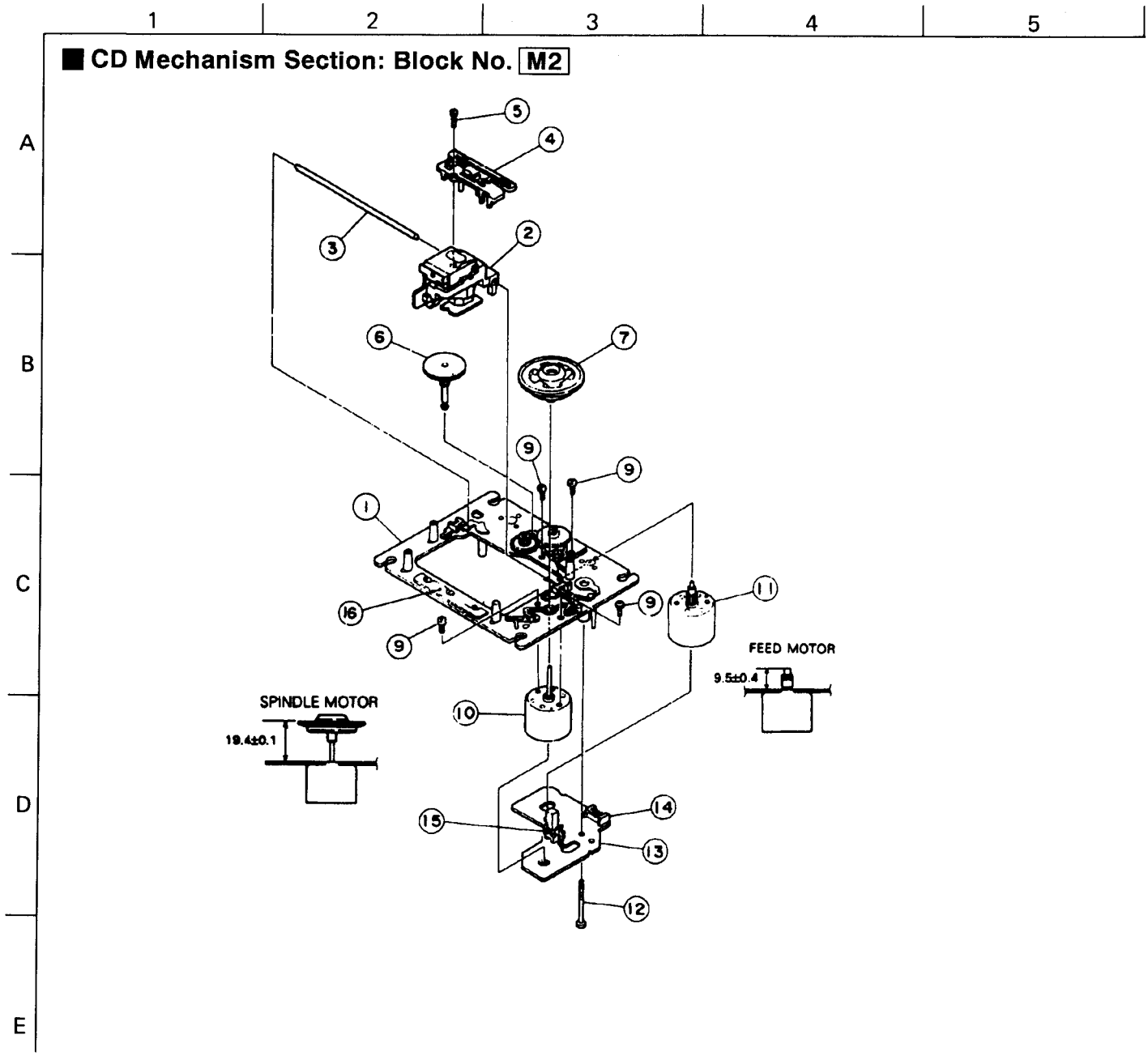
BLOCK NO. M1MM[ ][ ][ ]

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	VJG1426-002	FRONT PANEL		1		
	2	VJE3006-002SC	FITTING (L)		1		
	3	VJE3007-002SC	FITTING (R)		1		
	4	VJD5492-002	PLATE		1		
	5	E408131-001	REMOTE LENS		1		
	6	E406971-221	JVC MARK		1		
	7	VJK3699-002	FRONT LENS		1		
	8	VKW3001-321	COMP. SPRING		1		
	9	VJD5491-002	VOL ESCUTCHEON		1		
	10	VJK4493-001SC	LENS(STANDBY)		1		
	11	SBSF3012Z	SCREW	PWB + FRONT	1		
	12	VYH3944-001SC	LCD HOLDER		1		
	13	VXL4448-002SC	VOLUME KNOB		1		
	14	VJK4490-001SC	LED LENS		1		
	15	VXP3807-002SC	BUTTON		1		
	16	VJD2470-002SC	TOP PANEL		1		
	17	VKL1444-001SC	BOTTOM CHASSIS		1		
	18	SBST4006Z	SCREW	POWER TRANS	4		
	19	SBST3004Z	SCREW	LUG+BOTTM CHASS	2		
	20	VYH3939-001SC	AC HOLDER		1		
	21	SBST3008Z	SCREW	POWER SUPPLY PC	2		
	23	VJD5410-005	PICK COVER		1		
	24	SDSF2006M	SCREW		4		
	25	E75609-001	INSULATOR		2		
	26	E75609-002	INSULATOR		2		
	27	VYH8089-001SC	CD MECHA HOLDER		1		
	28	VYH8089-002SC	CD MECHA HOLDER		1		
	29	SBSF3012Z	SCREW		4		
	30	VMA4692-001	SHIELD		1		
	31	VJD1210-002	CD CASE		1		
	32	E406709-001	LASER CAUTION		1		
	33	VYH8090-001SC	GEAR 1		1		
	34	VYH8091-002SC	GEAR 2		1		
	35	VYH7699-001	PULLEY		1		
	36	MXN-13FB12F	DC MOTOR ASS'Y		1		
	37	SPSP3004Z	SCREW		2		
	38	VKB3000-170	BELT		1		
	39	VJE3014-001SC	CD DOOR		1		
	40	VJE3011-001	CD DOOR LENS		1		
	41	VJK3701-001SC	ILLUMI LENS		1		
	42	VJD5489-001	ORNAMENT		1		
	43	SDSF2006M	SCREW		3		
	44	VJD5490-001	STOPPER		1		
	45	VKZ4765-001	S.BOLT(DIN)		2		
	46	VYH3726-001SS	CLAMPER		1		
	47	VYH7313-003	MAGNET		1		
	48	VYH7677-201	YOKE		1		
	49	SDSF2606Z	SCREW		1		
	50	SBSF3012Z	SCREW	CD CASE + CD PW	4		
	51	VMA4701-001	BARRIER		1		
	52	SBSF3012Z	SCREW		1		
	53	VYSS1R1-108	SPACER	DOOR LENS	2		
	54	VYH8093-001SC	IC HOLDER		1		
	55	SBSF3010Z	SCREW		3		
	56	VMH3017-001	HEAT SINK		1		

BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	57	SBSF3012Z	SCREW	H.SINK+IC HOL,C	3		
	58	VYH8107-001SC	BRACKET		1		
	59	SBST3008Z	SCREW		1		
	60	VYSH104-047	SPACER	TUNER PCB	1		
	61	VJD2471-002SC	SIDE PANEL (L)		1		
	62	SBSF3012Z	SCREW		1		
	63	VJD2472-002	SIDE PANEL (R)		1		
	64	SBSF3012Z	SCREW		1		
	65	VJG1430-002	REAR COVER		1		
	66	SBSF3012Z	SCREW	REAR	6		
	67	SSST3010Z	SCREW	BOTTOM	4		
	68	VYN9291-C008	NAME PLATE		1	G	
		VYN9291-C002	NAME PLATE		1	B	
		VYN9291-C005	NAME PLATE		1	E	
		VYN9291-C009	NAME PLATE		1	EN	
	69	E70891-001	CLASS 1 LABEL		1		
	71	SBSF3012Z	SCREW		2		
	74	SBSF3012Z	SCREW		1		
	75	VYH8108-001	BARRIER		1		
	76	VJF4055-001	FOOT		2		
		VJF4055-001	FOOT		2		
	77	VYH8094-002	HEAT SINK		1		
	78	EMG7331-003Z	FUSE CLIP I.M		2		
		EMG7331-003Z	FUSE CLIP I.M		2		
	79	SBSF3012Z	SCREW		2		
	80	SBSF3010Z	SCREW		1		
⚠	F 901	QMF51E2-R40SBS	FUSE	PRI	1		
⚠	F 902	QMF51E2-6R3J1	FUSE	SEC	1		
⚠	T 901	VTP66J2-12K	POWER TRANS		1		

■ CD Mechanism Section: Block No. M2



● CD mechanism parts list

BLOCK No. M2MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	EPB-002A	BASE ASS'Y		1		
	2	OPTIMA-6S	PIC-UP		1		
	3	E406777-001	GUIDE SHAFT		1		
	4	E307746-001	CD RACK		1		
	5	SDSF2006Z	SCREW	CD LACK ASS'Y	1		
	6	EPB-003A	MECHA GIAR		1		
	7	E75807-301	CD T.TABLE ASSY		1		
	9	SDSP2003N	SCREW	FOR MOTOR	4		
	10	E406783-001	SP MOTOR	SPINDL MOTOR	1		
	11	E406784-001SA	DC MOTOR ASS'Y	FEED MOTOR	1		
	12	E75832-001	S.SCREW	M.REAF SWITCH	1		
	13	EMW10190-001	BOARD	LEAF SWITCH	1		
	14	EMV5109-006B	6P PLUG ASSY		1		
	15	ESB1100-005	LEAF SWITCH		1		
	16	E407212-001	DAMPER		1		

14. Electrical Parts

■ Main Amplifier Board

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
⚠	C 901	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
⚠	C 902	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
⚠	C 903	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
⚠	C 904	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	CN300	EMV7163-004	CONNECTOR		
	CN301	VMC0075-R02	CONNECTOR	CD DOOR	
	CN302	VMC0340-S16	CONNECTOR	MICOM	
	CN303	VMC0314-P14	CONNECTOR	EL/TU/CONN	
	CN351	VMZ0015-002	POST PIN	SHARSHI EARTH	
	CN352	VMZ0015-002	POST PIN	SHARSHI EARTH	
	CN371	VMZ0015-011	STYLE PIN	WR352 WIRE CLAM	
	CN373	VMZ0015-011	STYLE PIN	CN351 S WIRE CL	
	CN374	VMZ0015-011	STYLE PIN	EL SHELD WIRE C	
	CN375	VMZ0015-011	STYLE PIN	CN352 WIRE CLAM	
	CN901	VMZ0049-B02	CONNECTOR	PRI	
	CN902	VMZ0049-A02	CONNECTOR	SEC	
	CN903	EMV5163-004R	CONNECTOR	MAIN	
	C1000	QCXB1CM-332Y	C.CAPACITOR	3300PF 20% 16V	
	C1001	QCBB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
	C1002	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
	C1003	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
	C1006	QTE1V06-106Z	E.CAPACITOR		
	C1007	QCBB1HK-221Y	C.CAPACITOR	220PF 10% 50V	
	C1021	QFN81HJ-683	M.CAPACITOR	.068MF 5% 50V	
	C1022	QFN81HJ-683	M.CAPACITOR	MAKER SHITEI	
	C1024	QTE1C06-476Z	E CAPACITOR		
	C1025	QTE1V06-106Z	E.CAPACITOR		
	C1026	QFV41HJ-474	FILM CAPACITOR	.47MF 5% 50V	
	C1051	QCS11HJ-101	C.CAPACITOR	100PF 5% 50V	
	C1082	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V	
	C1083	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V	
	C1084	QFLC1HJ-472ZM	M.CAPACITOR	4700PF 5% 50V	
	C1087	QFP82AJ-392	PP.CAPACITOR	3900PF 5% 100V	
	C1088	QTE1C03-106Z	E.CAPACITOR		
	C2000	QCXB1CM-332Y	C.CAPACITOR	3300PF 20% 16V	
	C2001	QCBB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
	C2002	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
	C2003	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
	C2006	QTE1V06-106Z	E.CAPACITOR		
	C2007	QCBB1HK-221Y	C.CAPACITOR	220PF 10% 50V	
	C2021	QFN81HJ-683	M.CAPACITOR	.068MF 5% 50V	
	C2022	QFN81HJ-683	M.CAPACITOR	MAKER SHITEI	
	C2024	QTE1C06-476Z	E CAPACITOR		
	C2025	QTE1V06-106Z	E.CAPACITOR		
	C2026	QFV41HJ-474	FILM CAPACITOR	.47MF 5% 50V	
	C2051	QCS11HJ-101	C.CAPACITOR	100PF 5% 50V	
	C2082	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V	
	C2083	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V	
	C2084	QFLC1HJ-472ZM	M.CAPACITOR	4700PF 5% 50V	
	C2087	QFP82AJ-392	PP.CAPACITOR	3900PF 5% 100V	
	C2088	QTE1C03-106Z	E.CAPACITOR		
	C3001	QETM1EM-828	E.CAPACITOR	8200MF 20% 25V	
	C3002	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
	C3003	QET41CM-107	E CAPACITOR	100MF 20% 16V	
	C3004	QETC1AM-337ZN	E CAPACITOR	330MF 20% 10V	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C3005	QETC1AM-336ZN	E CAPACITOR	33MF 20% 10V	
	C3006	QETC1HM-225ZM	E CAPACITOR	2.2MF 20% 50V	
	C3021	QER41CM-476M	E.CAPACITOR	47MF 20% 16V	
	C3022	QTE1C06-226Z	E CAPACITOR		
	C3031	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C3032	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C3033	QFV71HJ-563ZM	FILM CAPACITOR	.056MF 5% 50V	
	C3034	QFV71HJ-563ZM	FILM CAPACITOR	.056MF 5% 50V	
	C3035	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C3036	QET41CM-106	E CAPACITOR	10MF 20% 16V	
	C3037	QET41CM-106	E CAPACITOR	10MF 20% 16V	
	C3041	QER41CM-106	E.CAPACITOR	10MF 20% 16V	
	C3051	QET41AM-107	E CAPACITOR	100MF 20% 10V	
	C3052	QET41CM-226	E CAPACITOR	22MF 20% 16V	
	C3053	QET41CM-106	E CAPACITOR	10MF 20% 16V	
	C3081	QET41AM-227	E CAPACITOR	220MF 20% 10V	
	C3083	QET41HM-474	E CAPACITOR	.47MF 20% 50V	
	C3084	QET41HM-474	E CAPACITOR	.47MF 20% 50V	
	C3085	QET41HM-474	E CAPACITOR	.47MF 20% 50V	
	C3086	QET41EM-106	E CAPACITOR	10MF 20% 25V	
	C3087	QET41CM-106	E CAPACITOR	10MF 20% 16V	
	C3088	QER41CM-106	E.CAPACITOR	10MF 20% 16V	
	C3089	QCBB1HK-471Y	C.CAPACITOR	470PF 10% 50V	
	C3090	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C3091	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C3092	QCBB1HK-102Y	C.CAPACITOR	FTZ TAISAKU	
	C3093	QCBB1HK-102Y	C.CAPACITOR	FTZ TAISAKU	
	C3501	QCS11HJ-330	C.CAPACITOR	33PF 5% 50V	
	C3502	QCS11HJ-201	C.CAPACITOR	200PF 5% 50V	
	C3503	QCS11HJ-201	C.CAPACITOR	200PF 5% 50V	
	C3504	QFLC1HJ-473ZM	M.CAPACITOR	.047MF 5% 50V	
	C3505	QFLC1HJ-473ZM	M.CAPACITOR	.047MF 5% 50V	
	C3507	QCBB1HK-271Y	C.CAPACITOR	270PF 10% 50V	
	C3508	QCS11HJ-680	C.CAPACITOR	68PF 5% 50V	
	C9001	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V	
	C9002	QET41EM-107	E CAPACITOR	100MF 20% 25V	
	C9101	QET41HM-474	E CAPACITOR	.47MF 20% 50V	
	C9102	QET41EM-106	E CAPACITOR	10MF 20% 25V	
	C9103	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C9201	QET41CM-106	E CAPACITOR	10MF 20% 16V	
	C9202	QETC1CM-337ZM	E CAPACITOR	330MF 20% 16V	
	C9203	QET41CM-476	E CAPACITOR	47MF 20% 16V	
	C9301	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C9302	QET41CM-106	E CAPACITOR	10MF 20% 16V	
	D3021	MTZ4.3JB	ZENER DIODE		
	D3031	1SS133	SI DIODE		
	D3032	1SS133	SI DIODE		
	D3033	1SS133	SI DIODE		
	D3034	1SS133	SI DIODE		
	D3501	1SS133	SI DIODE	MAKER SITEI	
	D3502	1SS133	SI DIODE	MAKER SITEI	
	D3511	RB721Q	DIODE		
	D9001	MTZ10JAT-77	ZENER DIODE		
	D9002	1SR35-100	SI DIODE	STANDBY MOTOR	
	D9101	MA4075(M)	ZENER DIODE		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D9201	MTZ6.8JB	ZENER DIODE		
	D9202	MTZ5.1JB	ZENER DIODE		
	D9301	1SS133	SI DIODE		
	D9302	MTZ8.2JB	ZENER DIODE		
	D9303	1SS133	SI DIODE		
⚠	IC 31	LA4705NA	IC	POWER AMP	
	IC 32	NJM4580L	IC	AHB AMP	
	IC 35	NJM4580L	IC		
	IC 38	BH3852S	IC	E VOL	
⚠	IC 91	D5SBA20-4101	SI DIODE		
⚠	IC901	BA3960	IC	REG	
⚠	IC931	KIA78S06P	IC		
⚠	J 901	QNC0001-001	AC SOCKET 8TYPE		
	J3002	VMJ3020-101	1PIN PINJ BLACK	SUB WOOFER	
	J3003	FMMJ4001-001	SPK TERMINAL	SPEAKER	
	J3004	QMS3L60-E40G	3.5 JACK	KIKAKU HENNKOU	
	L 901	VQZ0113-001	INDUCTOR		
	L1001	VQP0018-470	INDUCTOR		
	L1002	VQZ0048-007	INDUCTOR		
	L1003	VQZ0104-003	INDUCTOR		
	L2001	VQP0018-470	INDUCTOR		
	L2002	VQZ0048-003	INDUCTOR		
	L2003	VQZ0104-003	INDUCTOR		
	L3001	VQP0018-470	INDUCTOR		
	L9001	VQP0033-100Z	INDUCTOR	EL&MICON NOISE	
	Q1031	KTC3199(GL)-T	TRANSISTOR		
	Q1041	2SD2144S(VW)	TRANSISTOR		
	Q1051	2SK301(P,Q)	TRANSISTOR		
	Q2031	KTC3199(GL)-T	TRANSISTOR		
	Q2041	2SD2144S(VW)	TRANSISTOR		
	Q2051	2SK301(P,Q)	TRANSISTOR		
	Q3041	KRA101M-T	TRANSISTOR		
	Q3081	2SD2144S(VW)	TRANSISTOR	BASS MUTE	
	Q3501	KTC3199(GL)-T	TRANSISTOR	MAKER SITEI	
	Q3502	KTC3199(GL)-T	TRANSISTOR		
	Q3511	DTC144WSTP	TRANSISTOR		
	Q9001	KTC3199(GL)-T	TRANSISTOR		
	Q9201	2SD882(P,Q)	TRANSISTOR		
	Q9202	KRA107M-T	D.TRANSISTOR		
	R1001	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	R1002	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	R1003	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
	R1004	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R1022	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R1023	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R1024	QRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W	
	R1025	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R1027	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R1028	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R1029	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R1031	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R1032	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R1033	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R1034	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R1041	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R1051	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R1052	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	R1082	QRD161J-302	CARBON RESISTOR	3.0K 5% 1/6W	
	R1083	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R1085	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R1086	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R1087	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R1089	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R2001	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	R2002	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	R2003	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
	R2004	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R2022	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R2023	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R2024	QRD161J-202	C RESISTOR	2.0K 5% 1/6W	
	R2025	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R2027	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R2028	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R2029	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R2031	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R2032	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R2033	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R2034	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R2041	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R2051	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R2052	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	R2082	QRD161J-302	CARBON RESISTOR	3.0K 5% 1/6W	
	R2083	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R2085	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R2086	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R2087	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R2089	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R3001	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R3021	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R3022	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R3031	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R3032	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R3033	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
	R3034	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
	R3035	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R3036	QRD161J-513	CARBON RESISTOR	51K 5% 1/6W	
	R3051	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R3052	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R3053	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R3054	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R3055	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R3056	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R3081	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R3082	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
	R3083	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
	R3084	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
	R3085	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R3086	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R3501	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R3502	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R3503	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R3504	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R3505	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	R3507	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R3508	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
	R3509	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R3510	QRD161J-474	CARBON RESISTOR	470K 5% 1/6W	
	R3511	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R3512	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R9001	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R9002	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R9003	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R9004	QRD161J-391	CARBON RESISTOR	390 5% 1/6W	
	R9102	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	R9103	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R9104	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R9105	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R9201	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R9202	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R9203	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
	R9204	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R9205	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
⚠	R9301	QRZ0077-4R7X	FUSE RESISTOR	4.7 1/0W	

■ Tuner & System CPU Board

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	BL701	ESPR10005	EL PANEL(BLUE)	LCD BACK LIGHT	
	C 1	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 2	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 3	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 4	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 5	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 8	NCS21HJ-150AY	C.CAPACITOR	15PF 5% 50V	
	C 9	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 11	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 12	NCT21CH-150AY	C CAPACITOR	15PF +50:-10% 1	
	C 13	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 14	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 16	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 17	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 19	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V	
	C 21	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 30	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	C 31	NCS21HJ-390AY	C CAPACITOR	39PF 5% 50V	
	C 32	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 33	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
	C 35	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 36	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 37	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 39	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 40	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 41	QEK41HM-104	E.CAPACITOR	.10MF 20% 50V	
	C 42	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V	
	C 43	QEK61HM-335ZN	E.CAPACITOR	3.3MF 20% 50V	
	C 44	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V	
	C 45	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 46	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V	
	C 47	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C 49	NCB21HK-183AY	C CAPACITOR	.018MF 10% 50V	
	C 50	NCB21HK-183AY	C CAPACITOR	.018MF 10% 50V	
	C 51	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 52	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 53	NCB21HK-681AY	C CAPACITOR	680PF 10% 50V	
	C 55	NCS21HJ-120AY	C CAPACITOR	12PF 5% 50V	
	C 60	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V	
	C 61	NCS21HJ-120AY	C CAPACITOR	12PF 5% 50V	
	C 62	NCS21HJ-120AY	C CAPACITOR	12PF 5% 50V	
	C 63	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V	
	C 65	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 66	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
	C 67	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
	C 68	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V	
	C 69	QEK41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	C 70	NCB21HK-392AY	C CAPACITOR	3900PF 10% 50V	
	C 71	QEK61HM-335ZN	E.CAPACITOR	3.3MF 20% 50V	
	C 72	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C 91	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	CF 1	VCF2M3B-104	CERAMIC FILTER	FM IF	
	CF 2	VCF2S3B-102	C FILTER	FM IF	
	CF 3	VCF1Z2Z-115Z	CERAMIC FILTER		
	CF 4	CMU2-456A05	CERA LOCK		

BLOCK NO. 02□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CN501	VMC0314-S14	CONNECTOR		
	CN502	VMC0314-S14	CONNECTOR		
	CN503	VMC0075-R03	CONNECTOR		
	CN631	VMC0163-R07	CONNECTOR		
	CN632	VMC0314-P14	CONNECTOR		
	CN633	VMC0340-S18	CONNECTOR		
	CN634	VMC0041-005	CONNECTOR		
	CN635	VMC0040-003	CONNECTOR		
	CN711	VMC0340-P16	CONNECTOR	TO MAIN	
	CN761	VMC0340-P18	CONNECTOR	TO FUNC.TUNER	
	CN766	VMC0163-R11	CONNECTOR	TO CD	
	CN781	EMV7159-006	CONNECTOR BTOB	TO SW	
	CN801	EMV5159-006R	B TO B CONNECTO	TO MICOM	
	C4001	QET41CM-106	E CAPACITOR	10MF 20% 16V	
	C4002	QETCOJM-227ZN	E CAPACITOR	220MF 20% 6.3V	
	C4003	QET41AM-107	E CAPACITOR	100MF 20% 10V	
	C5301	QET41HM-475	E CAPACITOR	TU SW	
	C5302	QET41AM-107	E CAPACITOR	TU SW	
	C5501	QCBB1HK-102Y	C.CAPACITOR	MICON NOISE	
	C5901	QET41CM-227	E CAPACITOR	220MF 20% 16V	
	C5902	QER61EM-685Z	E.CAPACITOR	6.8MF 20% 25V	
	C5903	QFLC1HJ-333ZM	M.CAPACITOR	.033MF 5% 50V	
	C5904	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C5905	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C5906	QCBB1HK-102Y	C.CAPACITOR	-10 KISEIHATUSI	
	C6102	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
	C6121	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V	
	C6122	NCB21HK-332AY	C CAPACITOR	3300PF 10% 50V	
	C6124	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C6150	NCS21HJ-300AY	C CAPACITOR	30PF 5% 50V	
	C6151	NCS21HJ-100AY	C.CAPACITOR	10PF 5% 50V	
	C6152	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C6155	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C6156	QTE1C03-106Z	E.CAPACITOR		
	C6202	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
	C6221	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V	
	C6222	NCB21HK-332AY	C CAPACITOR	3300PF 10% 50V	
	C6224	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C6250	NCS21HJ-300AY	C CAPACITOR	30PF 5% 50V	
	C6251	NCS21HJ-100AY	C.CAPACITOR	10PF 5% 50V	
	C6252	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C6255	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C6256	QTE1C03-106Z	E.CAPACITOR		
	C6301	QER61HM-684ZM	E.CAPACITOR	.68MF 20% 50V	
	C6302	NCB21HK-103AY	C.CAPACITOR	.010MF 10% 50V	
	C6321	QER41CM-106	E.CAPACITOR	10MF 20% 16V	
	C6322	NCB21HK-103AY	C.CAPACITOR	.010MF 10% 50V	
	C6341	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C6343	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	C6351	QER41CM-476M	E.CAPACITOR	47MF 20% 16V	
	C6352	QER41CM-106	E.CAPACITOR	10MF 20% 16V	
	C6353	NCB21EK-823AY	C CAPACITOR	.082MF 10% 25V	
	C6370	NCB21HK-223AY	C.CAPACITOR	.022MF 10% 50V	
	C6371	NCB21HK-223AY	C.CAPACITOR	.022MF 10% 50V	
	C6372	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	

BLOCK NO. 02□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C6373	NCB21HK-182AY	C CAPACITOR	1800PF 10% 50V	
	C6374	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
	C6375	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C7001	NCS21HJ-180AY	C CAPACITOR	18PF 5% 50V	
	C7002	NCS21HJ-180AY	C CAPACITOR	18PF 5% 50V	
	C7004	NCS21HJ-360AY	C CAPACITOR	36PF 5% 50V	
	C7005	NCS21HJ-390AY	C CAPACITOR	39PF 5% 50V	
	C7006	NCS21HJ-200AY	C CAPACITOR	20PF 5% 50V	
	C7007	NCS21HJ-220AY	C.CAPACITOR	22PF 5% 50V	
	C7008	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C7009	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C7011	QER41AM-107	E.CAPACITOR	100MF 20% 10V	
	C7012	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C7013	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C7014	QER41CM-106	E.CAPACITOR	10MF 20% 16V	
	C7021	QER41CM-476M	E.CAPACITOR	47MF 20% 16V	
	C7022	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C7026	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C7027	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C7031	EECSOHD473H	E.D.L.CAPACITOR		
	C7051	QER41CM-106	E.CAPACITOR	10MF 20% 16V	
	C7052	QER41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	C7091	QER41AM-107	E.CAPACITOR	100MF 20% 10V	
	C7701	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
	C7702	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
	C7704	NCS21HJ-331AY	C CAPACITOR	330PF 5% 50V	
	C7719	QCBB1HK-271Y	C.CAPACITOR	MICOM NOISE	
	C7721	QCBB1HK-271Y	C.CAPACITOR	MICOM NOISE	
	C7722	QCBB1HK-271Y	C.CAPACITOR	MICOM NOISE	
	C7723	QCBB1HK-271Y	C.CAPACITOR	MICOM NOISE	
	C7731	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V	
	C7757	QER41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	C7758	QER61HM-335ZM	E.CAPACITOR	3.3MF 20% 50V	
	C7759	QER41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	C7771	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C7773	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C7783	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V	
	C7787	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V	
	C8001	QCBB1HK-102Y	C.CAPACITOR	MICOM NOISE	
	D 1	1SS133	SI DIODE		
	D 2	1SS133	SI DIODE		
	D 3	1SS133	SI DIODE		
	D 4	1SS133	SI DIODE		
	DI701	VGL1208-001J	L.C.D.		
	D5301	MTZ3.9JB	ZENER DIODE	TU SW	
	D5302	1SS133	SI DIODE	TU SW	
	D5303	1SS133	SI DIODE	TU SW	
	D6341	MTZ6.2JB	ZENER DIODE		
	D7001	1SS133	SI DIODE	US5V	
	D7011	MTZ8.2JB	ZENER DIODE		
	D7012	1SS133	SI DIODE		
	D7031	1SS133	SI DIODE	BACK UP	
	D7032	1SS133	SI DIODE	XKILL	
	D7051	1SS133	SI DIODE	RESET	
	D7061	MTZ5.1JC	ZENER DIODE	BACK UP	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D7091	SLR-342VC-T09	LED RED H8.9MM	STANDBY LED	
	D7092	1SS133	SI DIODE		
	D7095	1SS133	SI DIODE		
	D8101	SLR-342MC-T09	LED GRN. H8.9MM	CD DOOR	
	D8102	SLR-342MC-T09	LED GRN. H8.9MM	CD DOOR	
	D8103	SLZ-481C09-T6	LED	CD DOOR	
	IC 1	TA2057N	IC		
	IC 2	LC72136	IC		
	IC401	TA8409S	IC		
	IC666	BA15218F	IC	FUNCTION	
	IC701	UPD78063GF-111	IC	SYSTEM MICON	
	IC702	SBX1971-52	RM.RECIVER		
	IC703	KIA78S06P	IC		
	J 1	EMB41YV-302K	ANT TERMINAL	AM/FM ANT	
	JS701	VCV7003-001	ROTARY ENCODER		
	J6001	VMJ3025-001	4PIN JACK ASSY		
	J6371	GP1F32T	OPTICAL JACK		
	K6370	VQZ0048-007	INDUCTOR		
	K7001	VQZ0107-002	INDUCTOR	VSS	
	K7003	VQZ0107-002	INDUCTOR		
	K8001	VQZ0107-002	INDUCTOR		
	L 1	VQZ0098-102	COIL BLOCK	MW/LW RF/OSC	
	L 4	VQP0018-221	INDUCTOR		
	L 10	VQZ0069-002S	TRAP COIL	114KHZ TRAP	
	L 11	VQP0018-2R7	INDUCTOR		
	L4001	VQP0028-221Z	INDUCTOR		
	L4002	VQZ0107-002	INDUCTOR		
	L5901	VQH1009-041	OSC COIL(BIAS)		
	L5902	VQP0033-100Z	INDUCTOR		
	L6121	EQF0101-010	FILTER		
	L6221	EQF0101-010	FILTER		
	L6370	VQP0018-100	INDUCTOR		
	L7002	VQP0033-100Z	INDUCTOR	SW5V	
	L7332	VQP0018-4R7	INDUCTOR	AVREF	
	L7701	VQP0018-4R7	INDUCTOR	SDATA	
	L7702	VQP0018-4R7	INDUCTOR	SCK	
	L7731	VQP0033-100Z	INDUCTOR	AVDD	
	Q 1	2SC2668(O)	TRANSISTOR		
	Q 2	DTA114YKA-X	TRANSISTOR		
	Q 3	KTC3199(GL)-T	TRANSISTOR		
	Q 4	KTC3199(GL)-T	TRANSISTOR		
	Q 6	DTA114YKA-X	TRANSISTOR		
	Q 7	2SA1037K(R)	TRANSISTOR		
	Q 8	2SA1037K(R)	TRANSISTOR		
	Q4001	2SC2412KK1	TRANSISTOR		
	Q4002	2SC2412KK1	TRANSISTOR		
	Q4003	DTC143TS	TRANSISTOR		
	Q5301	KTA1267(YG)-T	TRANSISTOR	TU SW	
	Q5302	KTC3199(GL)-T	TRANSISTOR	TU SW	
	Q5901	2SD2144S(VW)	TRANSISTOR		
	Q5902	KRC102M-T	D.TRANSISTOR	FOR DIMMER	
	Q5903	2SA952(L,K)	TRANSISTOR		
	Q6101	2SC2412KK1	TRANSISTOR		
	Q6121	2SC2412KK1	TRANSISTOR		
	Q6141	2SC2412KK1	TRANSISTOR		

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	Q6201	2SC2412KK1	TRANSISTOR		
	Q6221	2SC2412KK1	TRANSISTOR		
	Q6241	2SC2412KK1	TRANSISTOR		
	Q6301	2SC2412KK1	TRANSISTOR		
	Q6321	DTA114EKA-X	TRANSISTOR		
	Q6341	DTA114EKA-X	TRANSISTOR		
	Q7001	2SC2668(O)	TRANSISTOR	CLOCK SHIFT	
	Q7002	2SC2668(O)	TRANSISTOR	CLOCK SHIFT	
	Q7031	2SA1037AK(RS)-X	CHIP TRANSISTOR	SW5V	
	Q7051	DTC114TKT146	TRANSISTOR	RESET	
	Q7061	2SC2412KK1	TRANSISTOR	BACK UP	
	Q7091	2SC2412KK1	TRANSISTOR	POUT SW	
	Q7092	2SA1037AK(RS)-X	CHIP TRANSISTOR	STANDBY LED CON	
	Q7784	DTC144TKA-X	TRANSISTOR	TUNER DATA CONT	
	R 1	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 2	NRSA02J-820NY	MG RESISTOR	82 5% 1/10W	
	R 3	NRSA02J-560NY	MG RESISTOR	56 5% 1/10W	
	R 10	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R 12	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 13	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R 15	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 16	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 20	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 21	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
	R 22	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 23	NRSA02J-100NY	MG RESISTOR	10 5% 1/10W	
	R 24	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
	R 25	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 26	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R 27	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 29	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 30	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 31	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 34	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 35	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 36	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 37	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 38	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R 39	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R 42	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 43	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 44	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 45	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 48	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 52	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 54	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 55	NRSA02J-182NY	MG RESISTOR	1.8K 5% 1/10W	
	R 56	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R 57	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 60	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 61	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 65	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 66	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 69	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 74	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	

BLOCK NO. 02□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 75	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R4001	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R4002	NRSA02J-682NY	MG RESISTOR	6.8K 5% 1/10W	
	R4003	QRD14CJ-3R9S	UNF.C.RESISTOR	3.9 5% 1/4W	
	R4004	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R4005	QRD161J-391	CARBON RESISTOR	390 5% 1/6W	
	R4006	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
	R5301	QRD161J-390	CARBON RESISTOR	TU SW	
	R5302	QRD161J-102	CARBON RESISTOR	TU SW	
	R5303	QRD161J-563	CARBON RESISTOR	TU SW	
	R5304	QRD161J-472	CARBON RESISTOR	TU SW	
	R5901	QRD161J-270	CARBON RESISTOR	27 5% 1/6W	
	R5902	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R5903	QRD161J-271	CARBON RESISTOR	270 5% 1/6W	
	R5904	QRZ0077-470	F RESISTOR	47 1/0W	
	R5905	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R6101	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
	R6102	NRSA02J-623NY	MG RESISTOR	62K 5% 1/10W	
	R6103	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R6104	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R6105	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R6106	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R6121	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R6122	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R6123	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R6124	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R6141	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
	R6142	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R6143	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R6144	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R6145	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
	R6151	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
	R6152	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R6156	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	
	R6157	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R6201	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
	R6202	NRSA02J-623NY	MG RESISTOR	62K 5% 1/10W	
	R6203	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R6204	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R6205	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R6206	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R6221	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R6222	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R6223	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R6224	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R6241	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R6242	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R6243	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R6244	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R6245	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
	R6251	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
	R6252	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R6256	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	
	R6257	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R6301	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	

BLOCK NO. 02□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R6341	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R6351	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R6352	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R6353	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R6370	NRSA02J-913NY	RESISTOR	91K 5% 1/10W	
	R6371	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R6372	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7005	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
	R7006	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
	R7026	NRSA02J-0R0NY	MG RESISTOR	5% 1/10W	
	R7027	NRSA02J-0R0NY	MG RESISTOR	5% 1/10W	
	R7028	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7029	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7031	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R7032	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7033	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7051	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7052	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7061	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R7062	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R7063	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R7081	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R7082	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R7083	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R7084	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7091	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7092	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
	R7093	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R7095	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R7096	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7097	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7098	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7641	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R7701	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7702	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7703	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7704	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7705	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7706	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7711	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7712	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7713	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7715	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7716	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R7717	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R7718	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7719	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7721	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7722	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7723	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7724	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7725	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7726	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7727	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7729	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R7731	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7732	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7733	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7734	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7735	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7736	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7737	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7738	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7741	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
	R7742	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7745	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7746	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7747	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R7749	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R7751	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7752	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7753	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7754	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7755	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7756	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7757	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R7758	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R7759	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R7761	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7762	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R7763	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7764	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R7771	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
	R7772	NRSA02J-114NYM	RESISTOR	110K 5% 1/10W	
	R7773	NRSA02J-114NYM	RESISTOR	110K 5% 1/10W	
	R7774	NRSA02J-0RONY	MG RESISTOR	5% 1/10W	
	R7775	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
	R7783	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7784	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7785	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R7819	QRD161J-122	CARBON RESISTOR	MICOM NOISE	
	R7821	QRD161J-122	CARBON RESISTOR	MICOM NOISE	
	R7822	QRD161J-122	CARBON RESISTOR	MICOM NOISE	
	R7823	QRD161J-122	CARBON RESISTOR	FOR B7854	
	R8001	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R8002	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R8003	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
	R8004	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
	R8005	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R8006	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
	R8007	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R8008	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
	R8009	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R8011	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R8012	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R8101	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
	R8102	NRSA02J-391NY	MG RESISTOR	390 5% 1/10W	
	S6370	VSH1153-003	SWITCH		
	S6371	VSH1153-003	SWITCH		
	S8001	QSQ4H11-V12Z	TACT SW		

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	S8002	QSQ4H11-V12Z	TACT SW		
	S8003	QSQ4H11-V12Z	TACT SW		
	S8004	QSQ4H11-V12Z	TACT SW		
	S8005	QSQ4H11-V12Z	TACT SW		
	S8006	QSQ4H11-V12Z	TACT SW		
	S8007	QSQ4H11-V12Z	TACT SW		
	S8008	QSQ4H11-V12Z	TACT SW		
	S8009	QSQ4H11-V12Z	TACT SW		
	S8010	QSQ4H11-V12Z	TACT SW		
	S8011	QSQ4H11-V12Z	TACT SW		
	S8012	QSQ4H11-V12Z	TACT SW		
	S8013	QSQ4H11-V12Z	TACT SW		
	T 1	VQT7A21-113	IFT		
	TU 1	VAF2S13-001	FRONT END	FM TU	
	W6000	VMZ0015-005	POST PIN		
	W6001	VMZ0015-002	POST PIN		
	X 1	VCX5044-001	CRYSTAL		
	X7001	VCX5000-002	CRYSTAL	CLOCK	
	X7002	M2Z4.19	CERA LOCK	MAIN CLOCK	

■ CD Amplifier Board

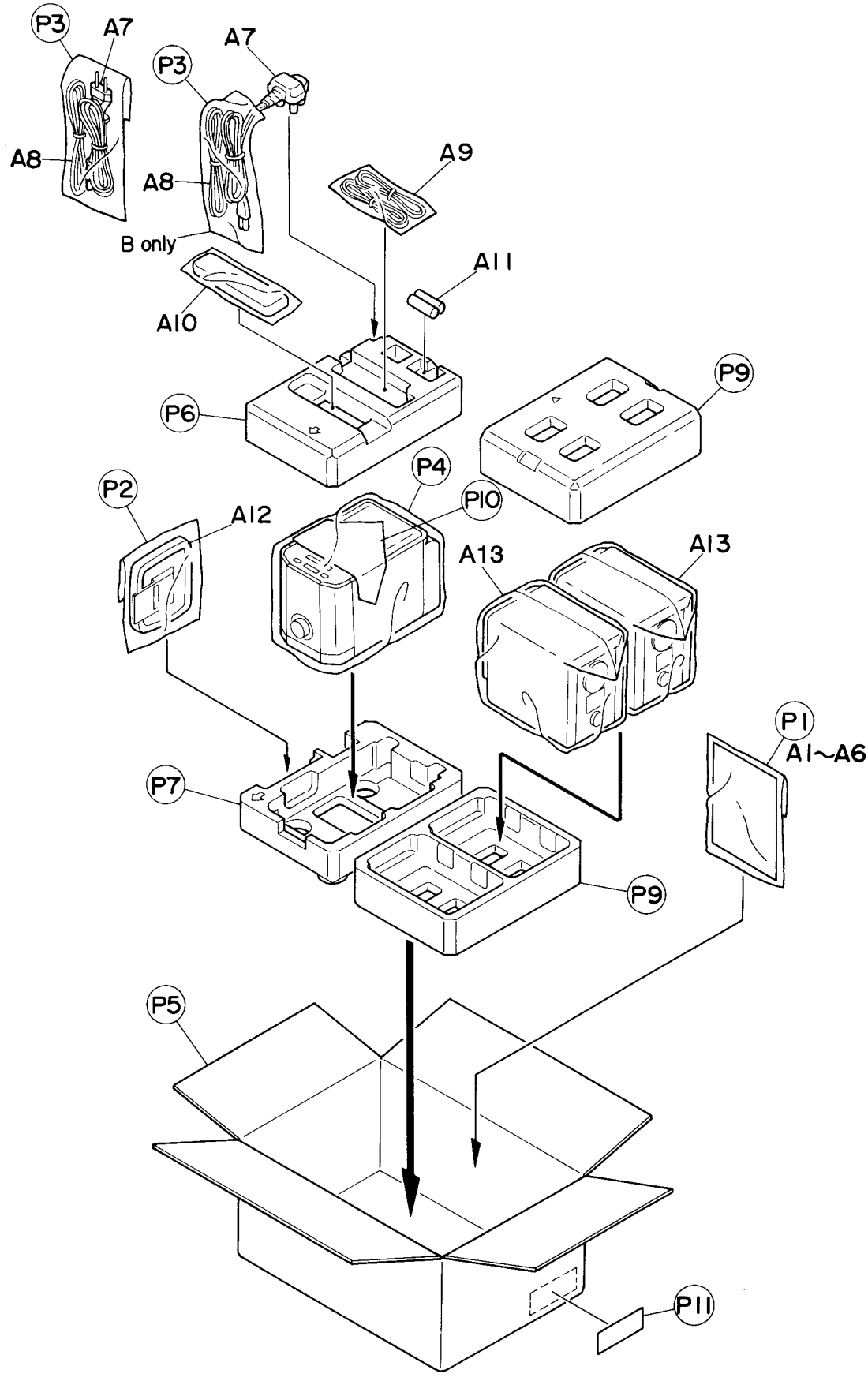
BLOCK NO. 03□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 604	QEK51AM-107	E CAPACITOR	100MF 20% 10V	
	C 605	QET41EM-106	E.CAPACITOR	10MF 20% 25V	
	C 606	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 607	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 608	QET41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 609	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 610	QFLC1HJ-273ZM	M.CAPACITOR	.027MF 5% 50V	
	C 611	QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
	C 612	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 613	QCBB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
	C 614	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C 615	QCHB1EZ-223	C.CAPACITOR	.022MF +80:-20%	
	C 616	QCHB1EZ-223	C.CAPACITOR	.022MF +80:-20%	
	C 617	QCHB1EZ-223	C.CAPACITOR	.022MF +80:-20%	
	C 618	QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
	C 619	QCBB1HK-271Y	C.CAPACITOR	270PF 10% 50V	
	C 620	QCS11HJ-470	C.CAPACITOR	47PF 5% 50V	
	C 621	QCBB1HK-821Y	C.CAPACITOR	820PF 10% 50V	
	C 622	QET41AM-476	E.CAPACITOR	47MF 20% 10V	
	C 623	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C 628	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 629	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
	C 631	QET41AM-477	E.CAPACITOR	470MF 20% 10V	
	C 632	QEK51AM-107	E CAPACITOR	100MF 20% 10V	
	C 651	QCS11HJ-120	C.CAPACITOR	12PF 5% 50V	
	C 652	QCS11HJ-150	C.CAPACITOR	15PF 5% 50V	
	C 653	QCHB1EZ-223	C.CAPACITOR	.022MF +80:-20%	
	C 655	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 661	QCBB1HK-471Y	C.CAPACITOR	470PF 10% 50V	
	C 662	QCHB1EZ-223	C.CAPACITOR	.022MF +80:-20%	
	C 663	QFLC1HJ-223ZM	M.CAPACITOR	.022MF 5% 50V	
	C 664	QCHB1EZ-223	C.CAPACITOR	.022MF +80:-20%	
	C 665	QFV71HJ-334ZM	FILM CAPACITOR	.33MF 5% 50V	
	C 671	QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
	C 672	QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
	C 673	QET41AM-227	E.CAPACITOR	220MF 20% 10V	
	C 674	QCHB1EZ-223	C.CAPACITOR	.022MF +80:-20%	
	C 675	QCBB1HK-102Y	C.CAPACITOR	AG-DG	
	C 676	QCBB1HK-102Y	C.CAPACITOR	AG-DG	
	C 691	QCBB1HK-151Y	C.CAPACITOR	DENGEN NOISE	
	C 692	QCBB1HK-151Y	C.CAPACITOR	DENGEN NOISE	
	C 693	QCBB1HK-151Y	C.CAPACITOR	DENGEN NOISE	
	CN601	EMV7144-015R	15PIN CONNECTOR	TO RF	
	CN602	EMV5109-006A	6P PLUG ASSY	TO MOTOR	
	CN603	VMC0163-R07	CONNECTOR	TO AUDIO	
	CN604	VMC0163-R11	CONNECTOR	TO MICON	
	CN605	VMC0041-003	CONNECTOR	TO DIGITAL OUT	
	D 661	1SS133	SI DIODE		
	IC601	AN8806SB	IC	RF AMP	
⚠	IC602	BA6897FP	IC	DRIVER	
	IC603	MN35510	IC	1CHIP PROCESSER	
	Q 601	2SA952(L,K)	TRANSISTOR		
	Q 631	2SA952(L,K)	TRANSISTOR		
	R 601	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 603	QRD161J-125	CARBON RESISTOR	1.2M 5% 1/6W	

BLOCK NO. 03□□□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 605	QRD167J-134	C.RESISTOR	130K 5% 1/6W	
	R 606	QRD161J-913	CARBON RESISTOR	91K 5% 1/6W	
	R 607	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 609	QRD161J-114	C.RESISTOR	110K 5% 1/6W	
	R 610	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
	R 612	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 613	QRD161J-121	CARBON RESISTOR	120 5% 1/6W	
	R 614	QRD161J-100	CARBON RESISTOR	10 5% 1/6W	
	R 615	QRD161J-120	CARBON RESISTOR	12 5% 1/6W	
	R 616	QRD161J-910Y	CARBON RESISTOR	91 5% 1/6W	
	R 621	QRD161J-680	CARBON RESISTOR	68 5% 1/6W	
	R 622	QRD161J-680	CARBON RESISTOR	68 5% 1/6W	
	R 623	QRD161J-680	CARBON RESISTOR	68 5% 1/6W	
	R 631	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 632	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 633	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 641	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
	R 642	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 643	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R 644	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 645	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 646	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R 647	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 651	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 652	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 653	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 654	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 655	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 659	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 661	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 663	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
	R 664	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 666	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
	R 671	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 672	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	X 651	VCX5016-934V	CRYSTAL	16.9344MHZ	

15. Packing


P3
A7
A8
P3
A7
A8
B only
A9
A11
A10
P6
P9
P2
A12
P4
P10
A13
A13
P1
A1~A6
P7
P9
P5
P11

■ Packing Parts List

BLOCK NO. M3MM[ ][ ][ ]

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	VPE3005-007	POLY BAG	INSTRUCTIONS	1		
	P 2	VPE3005-042	POLY BAG	AM LOOP ANT	1		
	P 3	QPGA012-02505	POLY BAG	ACCESSORIES	1	E,EN,G	
		QPGA010-03003	POLY.BAG	ACCESSORIES	1	B	
	P 4	VPE3020-018	POLY BAG	FOR SET	1		
	P 5	VPC9291-C002	CARTON		1		
	P 6	VPH1695-001	CUSHION	DECK:FRONT	1		
	P 7	VPH1695-002	CUSHION	DECK:REAR	1		
	P 8	9502SP-FS1	SP CUSHION SET	SPEAKER BOX	1		
	P 9	VPK3001-001	PACKING SHEET	FOR SET	1		
	P 11	----------	CARTON LABEL		1		

■ Accessories

BLOCK NO. M4MM[ ][ ][ ]

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	VNN9291-671C	INSTRUCTIONS		1	B	
		VNN9291-261C	INSTRUCTIONS		1	E,EN,G	
	A 2	VNN9291-251C	INSTRUCTIONS		1	E	
	A 3	VNN9291-271C	INSTRUCTIONS		1	EN	
	A 4	BT-20066A	DISTRI.LIST		1	B	
		BT-20135	WARRANTY CARD		1	G	
	A 5	BT-54003-1	WARRANTY CARD		1	B	
	A 6	E43486-340B	SAFETY SHEET		1	B	
⚠	A 7	QMP39F0-183	POWER CORD		1		
⚠		QMP5520-183BS	POWER CORD		1	B	
	A 8	EWP503-001	ANT.WIRE	FM ANT.	1		
	A 9	VMP0133-001	SPK.CORD(2PCS)	SPEAKER CORD OF	1		
	A 10	VGR0055-101	REMOCON UNIT	RM-RXU1000GR	1		
	A 11	R6PRPA-2STSA	BATTERY	FOR REMOCON	1		
	A 12	EQB4001-015	AM LOOP ANT	AM ANT.	1		
	A 13	UX1000K-SPBOX	SPEAKER BOX		2		
	SVP 1	VYT430	SPEAKER NET	SERVICE PARTS	1		
	SVP 2	VGS0801-010	CONE SPEAKER	SERVICE PARTS	1		